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<151> 2002-03-19

<150> PCT/US02/08124

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<160> 877

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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60


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gactctagag gat 733

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<210> 2
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Site
 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring amino acids

<400> 2
 Trp Ser Xaa Trp Ser
 1 5

<210> 3
 <211> 86
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site
 found in the IRF1 promoter (Rothman et al., Immunity 1:457-468
 (1994)), 18 nucleotides complementary to the SV40 early promoter,
 and a Xho I restriction site.

<400> 3
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
 cccgaaatat ctgccatctc aattag 86

<210> 4
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic sequence complementary to the SV40 promoter; includes a
 Hind III restriction site.

<400> 4
 gcggcaagct ttttgcaaag cctaggc 27

<210> 5

<211> 271
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

 <400> 5
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
 aaatatctgc catctcaatt agtcagcaac catagtcccc cccctaactc cgcccatccc 120
 gcccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240
 ttttgagggc ctaggctttt gcaaaaagct t 271

 <210> 6
 <211> 32
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Xho I restriction site.

 <400> 6
 gcgctcgagg gatgacagcg atagaacccc gg 32

 <210> 7
 <211> 31
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> Primer_Bind
 <223> Synthetic primer complementary to human genomic EGR1 promoter sequence (Sakamoto et al., Oncogene 6:867871 (1991)); includes a Hind III restriction site.

 <400> 7
 gcgaagcttc gcgactcccc ggatccgcct c 31

 <210> 8
 <211> 12
 <212> DNA
 <213> Homo sapiens

 <400> 8
 ggggactttc cc 12

 <210> 9
 <211> 73
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Primer_Bind
 <223> Synthetic primer with 4 tandem copies of the NFkB binding site (GGGGACTTCCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9
 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
 ccattctcaat tag 73

<210> 10
 <211> 256
 <212> DNA
 <213> Artificial Sequence

<220>
 <221> Protein_Bind
 <223> Synthetic promoter for use in biological assays; includes NFkB binding sites.

<400> 10
 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60
 caattagtca gcaaccatag tcccggccct aactccgccc atcccggccc taactccgcc 120
 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240
 cttttgcaaa aagctt 256

<210> 11
 <211> 2703
 <212> DNA
 <213> Homo sapiens

<400> 11
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 ttaaactcac tagcattttt attaatggcc gttatctaca ctaagctata ctgcaacttg 120
 gaaaaagagg acctctcaga aaactcacaa tctagcatga ttaagcatgt cgcttggcta 180
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 cagagtagag gattcccttt ggtgcgctat gcttacaatc taccaagagt taaaagctga 780
 actactgtgt gtgtaaccgt ttcccccgtc aaccaaatac agtgtttata gagtgaaccc 840
 tattctcatc tttcatcttg gaagcacttc tgtaatcact gcctggtgtc acttagaaga 900
 aggagaggtg gcagttttatt tctcaaacca gtcattttca aagaacaggt gcctaaaatta 960
 taaattgggtg aaaaatgc a tgtccaagca atgtatgac tggttgaaac aaatatatga 1020
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 aagcaaattt atacctattt gtgtattaag cacaagataa agaacagctg ttaatatatt 1140
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aaa						2703

<210> 12
 <211> 760
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (13)..(13)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (300)..(300)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (425)..(425)
 <223> n equals a,t,g, or c

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ccgtgggtggg	ggcagcgtag	gcgtasatcc	ctctcctctc	acttagcctg	ttgactcttg	180
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gccngctgc	ctggttttat	ttttatttta	ctttattttc	tgttttatga	gtgtgtgtcc	480
gccaccccc	acccccttca	gtgttaagtg	gggagccctg	ggggagtctc	tctgcctcc	540
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cctcaggccg	ccagtgtatc	cctgcccctt	tttaaaacaa	aatgccctcg	tttgtaaacc	720

cttagacgct tgagaataaa ccccttcctt ttcttccaaa

760

<210> 13

<211> 1445

<212> DNA

<213> Homo sapiens

<400> 13

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aaaaa						1445

<210> 14

<211> 1722

<212> DNA

<213> Homo sapiens

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tgggggtgcg	gcagtaccgc	aggaagagga	gcagcccctg	tgaagattga	gagctgccag	180
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ctgcaccggc	cgccccgacc	tcagcttccc	cgtgaagtac	tcagcgccgc	ggcggccccc	1080
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<210> 15
<211> 1333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (411)..(411)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1264)..(1264)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1319)..(1319)
<223> n equals a,t,g, or c

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ggagcctggc	tttgtccctg
tgccacagtc	tctgtcttcc
gctttgggaa	aaagaatgat
tcacgtggaa	ggacttccag
gctatgctct	ggcttctggt
tgttgtccct	gagcagcctc
ccattgtcac	tgagtttgtg
gcagcctgtc	tgaacgctg
gcatctcctt	tgcagtgatg
atgggcactg	ccagatcaaa
tggtgatagt	aatggtggcc
acccagcatg	ggcgagggtc
tggcccaacc	acaggagctg
actaggacca	ccaggagcac
agattccgcc	aactcaagtg
ctgttagtgt	cttcttcctg
caanccatag	gctcacaaaa
aaaaaaaaaa	aaa
	1333

<210> 16
 <211> 751
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

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<400> 16
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atggggaatc agctctaata ggaaccagac caacgttttc cagccccttc attctgggtga      180
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<210> 17
 <211> 1003
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (990)..(990)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1002)..(1002)
 <223> n equals a,t,g, or c

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accaaagtgg caaaaagaa ccaggatacc aaaagttaag ctcatacagc tgcaaaccat      180
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<210> 18
 <211> 796
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<400> 18						
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gctttttttt	ttttattaca	ctttaagttc	tgggatatgt	gttcagaaca	tgcaggtttg	360
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<210> 19
 <211> 1624
 <212> DNA
 <213> Homo sapiens

<400> 19						
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aaaa						1624

<210> 20
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 20						
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<210> 21
 <211> 2849
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<400> 21						
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ggggactcgg	tggcctcgct	gggcacccag	ccggacttgg	gctctgccct	ctaccaggag	240
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gaaagaattg	acaatctcat	agaccagggg	tctccatttc	tgggaattatc	ccagtttgca	420
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<210> 22
 <211> 755
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (733)..(734)
 <223> n equals a,t,g, or c

<400> 22						
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<210> 23
 <211> 4129
 <212> DNA
 <213> Homo sapiens

<400> 23						
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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<211> 1503

<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <212> DNA
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 <212> DNA
 <213> Homo sapiens

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<223> n equals a,t,g, or c

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<222> (781)..(781)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (840)..(840)

<223> n equals a,t,g, or c

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<222> (842)..(842)

<223> n equals a,t,g, or c

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gtccatcaga	aacaggagct	gacaacctgc	tgggcacccc	gaagancaaa	gccccctggc	720
agcttaccgg	gccaagcct	dggnatncc	cttgaanagc	ctggncagag	angggaagac	780
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<210> 34
 <211> 1038
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

<400> 34						
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atctttcaat	aacttttagt	aadataaatg	ttaagttgta	ccagtggcag	tcttatatag	180
taaatggcag	ctgacagcat	gaaaataaca	tatctaatat	tttgtgacta	tcttattagg	240
aaaatcagag	aatttcaaaa	ccttgttagt	ttttagggtg	tagtcacatt	ttataaatgt	300
gcggtatatt	tatacatgat	ttgacgtttg	tgwaaatatt	ttccctggac	tttatttta	360
gatgagatct	acagtgtagg	caaacttata	taatctgtca	actccattag	tgatcatagtc	420
agactcatcc	ccatgctaaa	attatagttg	tkaaaatacg	cttttgtaaa	tagttgtgtt	480
aggtcattat	caccaagtct	tcaaggkatt	acattataaa	aaccttggkt	tttattcttg	540
tgaatamccg	ttttttccat	gcaaagttaa	aattcttcag	cctttaattt	ttttattaat	600
atataaggat	gtgatgagta	tgactacaaa	acaggaaaaa	ataaacagat	ttcgtttgtg	660
gcttttgcta	aattgttacc	tgacaaaatc	ttagccagtt	cttcattttc	gttttgagat	720
gaagatactt	agtttttagtc	caggggctgg	gcgcgatagc	tgatgcctg	gggtccagtg	780
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aaaaaaaaaa	aaactcga					1038

<210> 35
 <211> 843
 <212> DNA
 <213> Homo sapiens

<400> 35						
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tccgcctgaa	tatctggccg	gcggtccaag	gggcctgcaa	acagctggag	gtctgtgagc	240
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cagaggagcc	aggacactgt	gtggcccaat	ctgaggtggt	caaggaaggt	tgctccatct	360
acaaccgctc	agaggcatgt	ccagctgctc	accaccaccc	cacctatgaa	ccgaagacag	420
tcacaacagg	gagcccccca	gtccctgagg	cccacagccc	tggtattgac	ggggccagct	480
ttatcggagg	tgctgtgctg	gtgttgagcc	tacaggcggt	ggctttcttt	gtgctgcact	540
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ccaagtgttt	aatgcctgac	atctcctcct	gtcctgggcc	tggaaacctgc	agctgagaaa	780
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ttg 843

<210> 36
<211> 849
<212> DNA
<213> Homo sapiens

<400> 36
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taagaggact ttaggggtact gagtcaccca tggatcatgt ttgcagagaa gtgtcacaga 180
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atagtaatgt ctaagccatc tggaattagt ttgttgatta tcaagaaaag ggatcgaagt 360
gctttttctg agtcattatc cacatgccga aacatttatt gaatagccct ttccttattg 420
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tgccgtgggt cacttatgta atcctagcat ttggggagac tgaggcaggc ggaacacctg 600
aggtcagggg ttcaagacca gactggccaa catggcaaaa ccccgctctc aaaaaaaaaa 660
aaaaaaaaaa aatttagctgg gcatgggtgg gcctgcctga aatcccagct actttgggag 720
gctgaggcag gagaacctct tgagcctggg aggtagggc tgcagtgagc cgagcttgca 780
ccactgcact ccaacttggg taacagagtg agactccatc tcaaaaaaaaa aaaaaaaaaa 840
aaaactcga 849

<210> 37
<211> 872
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (844)..(844)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (858)..(858)
<223> n equals a,t,g, or c

<400> 37
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gcctcaaaaa tgctgattct agcatcatgg aatgctgtc ctcaaagtgg tctaaacggg 120
ttgctgcttc acttgctcac ttaatctccc ttttcatagg gctgttggtt ttacttctgg 180
gaagtctctg ttaccctgga acagaaactc tcttccctaa aagttgattt tattgaccca 240
tgaggaggcag agacacttag gcatattttc cctccagact agaagcttct gaggaggacc 300
tcctgagtct gcaccctggc tccctgctgt gctgagggcc cccgtgttaa cctcacgttg 360
tgccctcctc gattcagagg gccagctgtg gttctgtcag ccaggcagtg gcccagctc 420
tacagaaatg agttgtcatt gcatcctagg gccagggtct tcgtgcttgt gtgtgttacg 480
tggaagtatg tggacaccaa gtgttctgg atggccacag cctgcgaagg aaactggggc 540
cagcagctgc tctgtgtttt cagccaacaa tggctcctgc ccactgccgc tgcataacca 600
ccagaggcag gcttctcttg acacaggcct gtcgttgagg catgtgcctg gcgagtccta 660
tttctattcc cctgtggggt agggacaggc agctgtacct tcagtgtgtt gctggggag 720
gagaatcgct tgaaccggga ggcggagggt gcagtgaacc aaaattgcac cactgcactg 780
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gggnccggga cccaattngc catataggaa aa 872

<210> 38

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<211> 601
 <212> DNA
 <213> Homo sapiens

<400> 38
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 gatgaccacc gccttgtctt ttatggtaat cactgttctt tgggttttat tactgcattt 180
 attggctaata atatgcatcc ctagaaaatg tagttttgcc tgctttttata taaatggaat 240
 attactgcat gcagtctttt gatttgtgat tgttttgctc taaggcttgt aagggtcatc 300
 catgttttgc atatagtttg tttattgtca ttgccataga gtaaatacatt gtatgaatat 360
 actgcagttt atttactgtt gacatatgtt tcagttgttt ttaactacta ggaaatgcta 420
 ctctgtacat tcttgtatat gtaccttggt gcacatatgt atgtttttct agagtatata 480
 cagtggcatg ggattgctga attaaaaggt ttgtatatct tatactagaa gataataaaa 540
 acttttctctg atggattctg ccaattcaaa aaaaaaaaaa aaaaaaaaaa aaaaactcg 600
 a 601

<210> 39
 <211> 1276
 <212> DNA
 <213> Homo sapiens

<400> 39
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 tcatccaaga gcagagtcca tgttgggcca ggagacttca gatccatgtc ctgggtgctgc 180
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 gatggagttg aagaggcaga gaaaaagatg gaagaagaag gtgtgagtgt gagtgaatg 480
 gaggaacag gagcacaagg acccagcagg gtagaagagg ctgagggaca cacagagggtg 540
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 gataaatatt tccagcatct ttgtgatgat ctggagggtat ttgctgctca tgctggccgc 960
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 attggggggg ggcccc 1276

<210> 40
 <211> 2084
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2075)..(2075)
 <223> n equals a,t,g, or c
 <220>

<221> misc_feature
 <222> (2083)..(2083)
 <223> n equals a,t,g, or c

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<400> 40
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gctgtgctgt gttggctgtg ttgggacact atgttccagg gattatgatt tcctacattg      180
tcttggttgag tatcctgctg tggcccctgg tggtttatca tgagctgata cagaggatgt      240
aactcgcct ggagccccctg ctcatgcagc tggactacag catgaaggca gaagccaatg      300
ccctgcata caaacacgac aagaggaagc gtcaggggaa gaatgcaccc ccaggagggtg      360
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tgggtgatgt gaagaaaaca gcattggcct tggccattac agactcagag ctgtcagatg      480
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taagccggga cctaggggag ggagaggagg gagagctggc ccctcccgaa gacctactag      660
gccgtcctca agctctgtca aggcaagccc tggactcgga ggaagaggaa gaggatgtgg      720
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aaaaaaaaaa aaaaaaaaaa actcgagggg gggcnccggt acnc                        2084
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<210> 41
 <211> 1765
 <212> DNA
 <213> Homo sapiens

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<400> 41
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aaataaaatt ggagattatgc tttttctgta ttctgtatta ctgacaagg gcattgaaaa      180
cataaaaaac gaaattgaag atgcaagtga acccttgata gatcctgtat atggacatgg      240
cagccaaagt ttaattaatc tcctgctgac gggacatgct gtttctaata tatgggatgg      300
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 <211> 2494
 <212> DNA
 <213> Homo sapiens

<400> 42						
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gaaggggat	gcaggcaaga	caccttccca	gctgctccta	gaggggacaa	gccaggccct	2040
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acagcccca	acaagcgcca	ccgtgggaga	ggagaggctg	ctgtcactgg	taccggatgc	2160
agacccacc	ctgtctgcag	gccaccccca	cctccctgca	gctttgaggc	tggcggggtc	2220
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ggggcagacc	agagagctca	agtttcagag	tcagaattag	gcacttggag	cgtttttgct	2340
ggcttgcaact	ttcttatttt	cttatttttag	agcgcttaaa	aaaatccgga	aaaatggggt	2400
ttaaaagaac	tgtctctttc	agtctacatt	tttgtttaat	acgcttgagc	aataaacgct	2460
tacttgcaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			2494

<210> 43
 <211> 1509
 <212> DNA
 <213> Homo sapiens

<400> 43						
ggcacgagga	tgtacctaat	gagcttctcc	attcactttg	taaaaataat	ttgtatgtgt	60
accatcttgg	tctctcccc	tcccgttttg	ttaaatatac	aggatagcac	tcccaggcca	120
ctttgggtctc	agtgtgaagat	ccctattaac	tatctgaaag	gaaaatagag	ccaagacctc	180
tggtctcaaa	tatataggaa	ttgcctttct	ttagtcttca	ggactattgt	gtgaaaacaa	240
gtaggggtct	aatctcctag	aaggtagggg	ctttatcctt	aaagagaata	tgtccccaga	300
ttattagcac	ttttagagga	gaagccaagg	tatgtagggg	tgtgtggctg	gcccacagc	360
ggagcacgaa	gagagaatgg	gataccattg	tgggaagaga	agaaaagtgc	ctcagggggc	420
tcccactgct	aaagtttttt	gtgagatggt	gatctgtgct	tcttgatttt	gactttttaa	480
ggaattatct	tggcagcaca	tgtagtattc	ttggatgata	ttgctgctct	tatttctcct	540
tttgtgtgtg	tgtgtgtgtg	tgtgtggcta	tgggttttca	tttgtaactc	catctgctta	600
ggagagtggg	ctctctataa	gggaacctgc	tgtaaacttc	attgcagcaa	ggatgtagag	660
agaaatagga	cttaattcca	ctaggggctc	tcatctcaca	ccttaaggag	gagatttcta	720
gaaaaactgg	gccagatttt	ctttgttctc	catcatttta	atgtggcagg	ctgttcagtt	780
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gcagttctcc	taaaacatag	ttgtttgttt	ttctttaaca	aagtttaagc	tagtgtaaat	1320
aaattaaaaa	aaattgcttg	tctgtctact	tcagctttgt	tttatgccca	tttcatattg	1380
ttgtctgtgt	tgtaattcat	aacttttgat	accatttctg	atgtgtaaaa	ttggttgtct	1440
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aaaaaaaaaa						1509

<210> 44
 <211> 885
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (233)..(233)
 <223> n equals a,t,g, or c

<400> 44

aattcggcac	gagagggctg	catccttgcg	ttctgtgagc	tctgcccgtt	gggagcatcc	60
atgctgatgt	gcaggggag	tgcagcactg	cattcttctt	gccttctctg	ttctgttttag	120
tacaaccacc	ccagcaggtc	tccagttcct	gccagggttag	tgtggatggc	ccagcaccat	180
ctcctctcca	tcttggttgg	tatcctctct	tgttctctac	aaccccgcca	ggntcgcggc	240
tcaggagctc	tgccgtgtga	agtgtgctca	gcagttctcc	tcacatgtt	acgcaaaatc	300
tctggctccc	tgtgtgtctg	agcccaacag	acacactgag	cacaggagtt	ggctctcagc	360
tcctcccagc	ttgccgtgac	tgagccytgc	cgtcctgtgg	camcgccasg	gagaccacag	420
tgtccaactg	tccaaccttt	acgtaattgg	catcccagga	ggagaagcaa	gagtgaatgg	480
ggcaggaaaa	gatcattaaa	gaaatcgtgg	ctgacataaa	aaaggatgag	ttcatgtcct	540
ttgtagggac	gcgtggatga	agctggaaac	catcattctg	agcaaactat	cgcaaggaca	600
gaaaaccaaa	caccatgtgt	tctcactcat	aggtgggaat	tgaacaatga	gatcacttgg	660
acacaggggtg	gggaacatca	cacaccgggg	cctgtcgtgg	gggaggggg	atggggcagg	720
gatagcatta	ggagatatac	ctaattgtaa	tgacgagtta	atgggtgtca	gcacaccaac	780
atggcacatg	tatacatatg	taacaaacct	gcattgtgtg	cacatgtacc	ccagaactta	840
aagtataata	aattaaaatt	aaaaaaaaaa	aaaaaaaaact	cgtag		885

<210> 45
 <211> 639
 <212> DNA
 <213> Homo sapiens

gaaaaaatgc	tagggagaca	aaatcaaatg	ttaaggggct	gggctctcag	cacattcttg	60
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aggggaccca	gttctattcc	tgcattcctta	gccatcatct	acacattttt	tatcttttct	180
tttaaatfff	taaaaattgt	gaaatctata	tacatataag	ccatatgttc	aacttaaaga	240
atagtaaaca	actgtgtccc	taggatccaa	gttaagaaat	agatcagagt	cagtttctta	300
gaagcttcta	tatgtgtctc	tccccagtca	tgtgtctctc	tgtctctacc	tgagggaat	360
tacagatttc	atgcttttct	ttatagtttt	cctttacaca	cataccctta	agcctctaag	420
tactatatgg	ttcggttttg	caaagcccag	aagcctatft	taatgctgta	tataagaata	480
tgctagccgg	gtatgggtgac	tcatacctgt	aatcccagca	ctttcagagg	ctgtggcagg	540
agggttgctg	aagcctagga	attcaagacc	agcctgggca	atatagggag	acccttcac	600
tacaaaataa	aaaattaaaa	aaaaaaaaaa	agggcgggcc			639

<210> 46
 <211> 790
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (55)..(55)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (76)..(76)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (112)..(112)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (120)..(120)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (137)..(137)

<223> n equals a,t,g, or c

<400> 46

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ggcgcggttg	ccgatncatt	aatgcagctg	gcacgacagt	tttcccgact	gnaaagcggn	120
cagtgaagcg	aacgcantta	aatgtgagtt	agctcactca	ttagcacccc	aggctttaca	180
ctttatgctt	ccggctcgta	tgttgtgtgg	aattgtgagc	ggataacaat	ttcacacagg	240
aaacagctat	gaccatgatt	acgccaagct	ctaatacgac	tcactatagg	gaaagctggt	300
acgcctgcag	gtaccgggtc	ggaaatcccc	ggtcgaccca	cgcgctccgt	tgaatgcact	360
gagtcctctg	gtgtagtagc	aataaggaaa	aatgaaatta	ctttcctgtg	cacacagtcc	420
agcctaattg	gtatgtgatg	ttgcacttag	cagccatgtg	gtgggcatgt	gtgactactc	480
tggttttcac	tttagtttct	aaacttttta	tccctctcaa	gtccagcatg	gatgggaaa	540
tgtctctgga	tccccacagc	tgtgtacttg	tttgcatattg	tttccctttg	agatttgtgt	600
ttgtgtcctg	ctttgagctg	taccttgtcc	agtccattgt	gaaattatcc	cagcagctgt	660
aatgtacagt	tccttctgaa	gcaagcaaca	tcagcagcag	cagcagcagc	agcacaattc	720
tgtgttttat	aaagacaaca	gtggccttcta	wwaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
aaaaaaaaaa						790

<210> 47

<211> 1343

<212> DNA

<213> Homo sapiens

<400> 47

ggcacgaggt	caaggcaaaa	atgggtcagg	tttggagagt	tccccactc	cttttgatg	60
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gcctctggtt	ctgggtgagg	ttatattgcag	gtggagacgg	ggggctgcac	ctgaacattt	180
ctagtgtcac	cctccctctc	cttcattgga	aacagctctc	cagggaaagta	ccttcctgcc	240
aggggaagcc	aaggctgggc	cggccgccct	acaaggagcc	acaggattgc	agccatgggt	300
gccacctttc	atggaagggg	agatttatgg	gctttcctgg	aacccccagg	ctgtcctggc	360
caagaggaaa	gaggtggtta	cttcaggagt	ttgaccttag	ttagataact	aaaagaatac	420
atttcccttc	ccttttcttt	atttctctca	taaaaatgta	caaagtatca	ccttctcca	480
tgccccaatc	tgtgttaaag	tcacaatcta	tgggtgtagt	tctgggattc	tgtcaaatc	540
tccttcctgc	tctccaaaat	ggacaattgt	cgtagggacc	acatgcccc	agaatacaat	600
ggcctctgtg	ttctactggg	gtcaagcctg	ctagaactca	gcattcatga	caggggctaa	660
gtgtgcatga	agtgaactg	actacagcta	gaaagccagg	cgcacaaatg	ccccttcccc	720
ccagggccgc	tctttccagc	gcagtcaccc	agaaaggccc	acgtgcagag	cccctgtgtc	780
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tttgacctga	ctttagaacc	tgacctcaag	gatatggcag	cgctagctt	tagctcccac	900
agcacggatg	ggggtgatgc	cagttagaag	tgggtagtga	acgtttgtctg	agctgttcac	960
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tctgcaggag	agcaagccag	gaggacatgg	gcctggacga	cacggcctcg	cagcaaatgt	1140
tgtcagacga	gcagtgcagg	gcgtgcggcc	ggcgggggag	gctggctccc	ccacacctcc	1200
cacctgcatt	gctctccctc	gtgctcccca	aatcaccaca	accaaccaat	accgcaatcc	1260
atgagggaact	cctcctgtgg	aaaaggagag	ctgttccaga	acacagaact	gatctcaggt	1320
ttttgaaaaa	aaaaaaaaaa	aaa				1343

<210> 48
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (44)..(44)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (56)..(56)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (128)..(128)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (625)..(625)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (692)..(692)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (699)..(699)
 <223> n equals a,t,g, or c

<400> 48
 tgttggttg aattgtggaan cggattaaca atttcaccac gggnaaccgg ctttgnccca 60
 tggattccgc caaggccga atttaccct tcaactaaagg ggaaccacaaa gctggagctc 120
 caccgcgntg gcggccgctc tagaactagt ggatcccccg ggctgcagga ttcggcacga 180
 ggtttcctgt cagtgtctatt gagattttat tttattaatg tctgcactta gttttacttc 240
 ctactttcta cttttattga gatttaaacc tgttgaagtc tcagggtcaa ttcctcacc 300
 tgagcaacct aatgttttat gtcttgttct tctacattt gggtattgaa actgaagttt 360
 taggttacca gatttgatag aagcacataa gactacttac tgcttttagtc tcaattatta 420
 attgagaaat tatcaattaa caataaggat ttctcttatt tttccccaag atagttata 480
 tatttaaaagt gtgttttata gtagaaagg tttagaatat ttgggttgct acattaattg 540
 aaatggcagc tgaagatgtg atttccagcc agggatttat taaaaaaaaa aaaaaaaaaac 600
 tcgagggggg gccgtaccca atcgncttat agtgagtcgt atacaatcac gggcgtcgtt 660
 acacgtcgga ctggaaaact gcgtaccact ancgctgcnc acacccttc gc 712

<210> 49
 <211> 679

<212> DNA
 <213> Homo sapiens

<400> 49
 ggcacgagtt tttatcttag acttgataca tttgcatatt actatggaag ttattcacct 60
 tgtccctggt tttctttaag atatcttaaa atcatagtta tactacagtc ctttttaaa 120
 tgtatcctga tacattgtaa aatattttta tttcattgtg gaaaataatg ttggataagg 180
 agatattttt cactgttaac ttttagccca tgcattttca taattttatt ttttcacttg 240
 ctgctttata tgacatatgt gacatttgat tatttaacac ttgatgtgat ctgcataaac 300
 ccaagttgca caaccctcct gctgaagata aaattgaggt taaagataaa gattttatttt 360
 catatttgta cagtgatcgg cttcagtgat ggtttttgtg ggcatttatt gtgtgtgtgt 420
 aagaaatttc atatgtatat attaagtagg cctctgagta ttgaataaatt gttttatgat 480
 tttgatttat atggtttaca ttttcattgt gtgggccata tttcgtttatactgtttatt 540
 tctcttcaaa ctttaataat tataccataa agtctaattt ttatagcaat gcaaatgtct 600
 aaggaactac aaatattttc tacgttgtaa attcaataaa gcttgcttcc ttggcaaaaa 660
 aaaaaaaaaa aaaaaaaaaa 679

<210> 50
 <211> 627
 <212> DNA
 <213> Homo sapiens

<400> 50
 ggcacgagga attttctttg aagtatttta aaagtaagcg ctttactgtg tgagccctgg 60
 ctcttgGCCA gtcctatgaa tgggccttag atgatgcccc tgaaattgca tgcaaaatgt 120
 ctttatttgc tcaaattgtgt attttttgtg ggggtggggg gaatgacctt tttcagatt 180
 ctcacagggt tcaagatcca aaaaagttta gatctagtgg gttagggtgtg gatttctctg 240
 aaataggcca gggaaaaggc tgtgacctct ccttgggtct gctgcagcgt tctagccttg 300
 gctagggtgag gggaactggt gggccgatgc tgtgtggctg gagcagaacc cacagtgtctg 360
 tccatagagg agaacaagca acgaagatca tggctaaaga tcttagagat ccttaaaatg 420
 ccgattccta atctcttgct gaaaactact gactttttaga tattttcccg ctgcccactc 480
 tgtaatccag aatatttagga acaagttctt aaactcgagt ttacttttca ctgggtgttg 540
 catgtgtggg ggacaaaagt ttatgttctt gtggcaggaa actgtggat ctgcagcatg 600
 gaggagttta aaaaaaaaaa aaaaaaa 627

<210> 51
 <211> 875
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (66)..(66)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (872)..(872)
 <223> n equals a,t,g, or c

<400> 51
 ggcacagcgc gaggctgggt cccggcccag gagaaggaag tcgctgaagg cagtggccat 60
 gctggncgtg gaaatgggag gcggttgca rgggtctatg gggcccggtc ctggatactc 120
 ggcaggaagc cgtgtctgca gaggtcctc cctgcctcag gtggcccgt tcaaccccag 180
 ccgtgcccat ctctgccac cgctgtcgg tgggggttta aattcgggtg ggctttctgg 240
 ggtgcagctc agcaccctcc cttatgcaga ctgggagggg gtcgggcagt cccctcagcc 300
 acgaggaccc tggatggggt ctagttcact tgggaccgtg gggcctggct gcgtactgag 360

tgggtgcccc	acagtcaagg	ccaacggggg	ctccccctgc	tctgagatgt	tgggagaaaag	420
gcggtcttctg	gaaccttccg	tgggacccgt	aagtggctgt	ccagaaaggc	gggaggggtg	480
gcacggggca	cggggggcag	ctggggctgt	cgtaagggt	cacgcatccg	tacagttgaa	540
tttcctttct	cttatcatgt	ttaccacc	ttgtccctttt	ttccccaat	tgtgcttttg	600
catttttttc	cttggcaaat	gtaaactcag	cctttcattc	atgacgtgtg	aaatttcagt	660
ttctctggag	tttgtcagac	ggcgtgggaa	ccacgcctga	aactcaggta	ataggaggaa	720
aaaaaaaaaa	cttaaaaaaa	tttttaaaaa	acataaaaact	actctctacc	tctgctggsc	780
cagcctgtct	cgccctggcc	gcggcagggg	ggcctgtaac	aatttcagtt	ttcgcagaac	840
attcaggtat	taaaaggaaa	aaaaaaaaaa	anggg			875

<210> 52
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 52						
agggcgcacg	gccaatlgat	gggcatgac	cttgtgctgg	gagcttcct	ggcgcacccg	60
gtcagggcgc	tcgcgcaagc	tgtcgcgtg	ggccagcagc	aactcgcgct	gctcgggtgs	120
carrgccatg	ctgtcgaggg	cttcctgcaa	ttgcagrcgt	gcttcgccgr	cttgttcgtg	180
ttcgarggcg	cgttgctcgc	ccatctcggc	cacttcttcg	tcgagccggg	tcgggcgcag	240
ggtcagttgc	tcgaccttgg	ccttgytcgc	cgagagctgg	gctttcaatt	cgccctgctg	300
gcgcgcttcg	tcctgcaaca					320

<210> 53
 <211> 710
 <212> DNA
 <213> Homo sapiens

<400> 53						
ggcacgagct	gggcctccag	gttcttcacc	tgtcacatga	tcattttaca	tattgtggtc	60
tgtttattta	ccatcagcat	catagaagag	caaaaagaag	aaatactgtg	ctccactaaa	120
agccaggctg	agaaaacagt	tactcacatt	gagcagtgag	tgaccactag	gtgggcattt	180
gttcatagct	gcatggagaa	caagtgccca	tatacatctt	tctgctgatg	cagcctctaa	240
attttgaatg	catcagtttt	ttaaactgca	ttgagcaata	ttccgtgggt	gtgatccata	300
atagcgtaac	tatttacgcc	tgtgacagag	aggaaaactg	tatggatata	agatatcttt	360
aagagctttt	taatctttaa	tcaagttagt	acttcttaag	gatgattaag	gccaggcagt	420
ggctcacacc	tgtaatccca	gcattttggg	aggccaaat	gggtggatcc	cttaagggtca	480
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ttagctgggg	tgtggtggca	ggcgcctgta	acccagcta	ctcaagaggc	tgagacaaga	600
gaatcgcttg	aagccaggag	ttggagattg	cagtgagcca	agatcatgcc	acttcactcc	660
agcctggaca	gcagagtggg	acttcttctt	aaaaaaaaaa	aaaaaaaaaa		710

<210> 54
 <211> 1428
 <212> DNA
 <213> Homo sapiens

<400> 54						
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cactgtgtca	gataacagcc	tttcaaattc	cagaggaga	ggcaaaccag	acctcaaatt	120
tgggtggcaaa	tccaaaggaa	agttatggcc	gttcatacaa	aaaaataagg	tactgatggt	180
tggcgtgaaa	tgagttttct	aagggtgtgga	gattttgact	tgatctttta	gtcttagaaa	240
aactaagatc	ctaaacctgt	agtttcagaa	tgcaaaagaa	gaagctagtg	tgctacctta	300
tgttgagaca	gtatttcttt	ttgggtggtg	tatctttgcc	atggccctgt	gtcttatttc	360
agatgcatta	tcctcgtaac	gtgactccca	cactaacaga	gtactgacct	ctccaccgtt	420
tcgcctcatg	cctttccctc	cttcctctcc	tagactgctg	gttaccttgg	ctgggagaga	480
ggatgtagtg	ggacattcct	gtaacacttt	atcgcacat	ctactggaaa	tcgttaccat	540

gttaataact	tggttttgaa	ttcatgttaa	catgtgtacc	catgaacatt	tttcattttc	600
ttttcatagt	gcgatacata	ggtgcatgac	agcattaacc	tggggacgta	gaatatgac	660
aaggcagcat	tactgcttta	actttagaat	gacttactat	ttattaattt	aaacagactg	720
ctgtttccac	aaccttagca	ttgaaggctc	ttcattttct	cccatcaagc	tatgttagtt	780
taggtaatgt	agaaatat	acctctggc	ttaagctggt	ttagagtaac	taactagagc	840
tatagtttgc	atgggaaagt	ctgcacgagc	ttcttgtcag	atatttcttg	ctcttctgtc	900
gcattactta	ctaaacctcc	caactctat	catattcttc	atttaaccac	ctcctacatg	960
ttttcttttg	gaccatggcc	taaaatttaa	ttgtttgtgt	tttacttgcg	ttggatttca	1020
aatattattt	gatgcttatt	tttgttttgt	gtcttcttgt	ttctgatttt	tactctgtca	1080
cggctccatc	tcttacatgt	agcttatgtc	ctttttaaca	tccccccatc	agcctccc	1140
tccccctcct	gcctctgcct	cacctctgc	tgttcccaac	ggccccagct	ctcccaagca	1200
gcaaaaggaa	cccctctccc	accgcttcaa	cgagttcatg	acctccaaac	ccaaaatcca	1260
ctgcttcagg	agcctaaagc	gtggggtaag	ttctgtctcg	gaatcctgtc	tctctggcgt	1320
gctttggttg	catgtttggt	tdgcataac	taattttgtt	tgtgaatgaa	tccattgtgt	1380
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<210> 55
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<400> 56

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 <211> 767
 <212> DNA
 <213> Homo sapiens

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ggacatgctg	tgtgtatgac
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	caaaaaaaaa
	aaaaaaaaag
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 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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	accagtttc
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	ggatgtacgt
	gtccctggct
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<210> 62

<211> 728

<212> DNA

<213> Homo sapiens

<400> 62

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<210> 63
<211> 1635
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 64
<211> 1727
<212> DNA
<213> Homo sapiens

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<222> (979)..(979)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1047)..(1047)
<223> n equals a,t,g, or c

<220>
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 <222> (1135)..(1135)
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<400> 64
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<210> 65
 <211> 1655
 <212> DNA
 <213> Homo sapiens

<400> 65
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 <211> 766
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (670)..(670)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (713)..(713)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (721)..(721)
 <223> n equals a,t,g, or c

<220>
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 <222> (728)..(728)
 <223> n equals a,t,g, or c

<220>
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 <222> (731)..(731)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (756)..(756)
 <223> n equals a,t,g, or c

<400> 74						
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<210> 75
 <211> 2181
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (5)..(5)
 <223> n equals a,t,g, or c

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<210> 76
 <211> 2207
 <212> DNA
 <213> Homo sapiens

<400> 76
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<210> 77

<211> 3533

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (44)..(44)

<223> n equals a,t,g, or c

<400> 77

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<210> 78
 <211> 867
 <212> DNA
 <213> Homo sapiens

<400> 78

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<210> 79
 <211> 1558
 <212> DNA
 <213> Homo sapiens

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<210> 80
 <211> 2199
 <212> DNA
 <213> Homo sapiens

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 <211> 1077
 <212> DNA
 <213> Homo sapiens

<400> 81						
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<210> 82
 <211> 832
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (831)..(831)
 <223> n equals a,t,g, or c

<400> 82	
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cattttaaga	agtttgacta gtagacattt cgtttaagtc ttttgaggg tcttggttga 780
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<210> 83
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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (1120)..(1120)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

<222> (1127)..(1127)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1141)..(1141)
 <223> n equals a,t,g, or c

<220>
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 <222> (1161)..(1161)
 <223> n equals a,t,g, or c

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 <221> misc_feature
 <222> (1197)..(1197)
 <223> n equals a,t,g, or c

<400> 83
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<210> 84
 <211> 1669
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1648)..(1648)
 <223> n equals a,t,g, or c

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 <222> (1659)..(1659)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1668)..(1668)
 <223> n equals a,t,g, or c

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 gtggaagtga aggaccccga cggcaagggt gtgtgtgtcc ggcagtagcg ctcgagggc 540
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<210> 85
 <211> 1336
 <212> DNA
 <213> Homo sapiens

<400> 85
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<210> 86
 <211> 799
 <212> DNA
 <213> Homo sapiens

<400> 86						
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<210> 87
 <211> 1345
 <212> DNA
 <213> Homo sapiens

<400> 87						
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<210> 88
 <211> 1347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (83)..(83)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (334)..(334)
 <223> n equals a,t,g, or c

<400> 88						
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<210> 89
 <211> 642
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> (41)..(41)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (49)..(49)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (64)..(64)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (621)..(621)
 <223> n equals a,t,g, or c

<400> 89
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 tcaactcctat aatcccagca ctttcagaag ccaagggtggg aacatcactt gaggccaaga 540
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<210> 90
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (105)..(105)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (730)..(730)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (755)..(755)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (757)..(757)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (777)..(777)
 <223> n equals a,t,g, or c

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 tatttgttta ccatttgtgt tccatttgct yctttgtatt gttgcattta gtacaatcag 600
 tgtttaaact tactgtatat ttatgctttc tgtatttacc agctatttta aatgagctgt 660
 aactttctag taaagaattg aaaagcaaat cctcactaaa ggatacacag gataggataa 720
 agccaagtcn catcaacatt aaaaaatact aaaaananaaa acacaaaaaa aaaaaanccc 780
 ggggggggcc cggaacccat tc 802

<210> 91
 <211> 470
 <212> DNA
 <213> Homo sapiens

<400> 91
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<210> 92
 <211> 1881
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (70)..(70)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (126)..(126)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (1860)..(1860)
 <223> n equals a,t,g, or c

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<400> 92
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gtcaagtctg tctaattctaa cttagcgctc gctttgcctt ctcaaatgc tcaactagcca 240
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ctgcggccga caagggaatt c 1881
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<210> 93
 <211> 1450
 <212> DNA
 <213> Homo sapiens

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<400> 93
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tgttattggt aatatcatta tttttgtctg tcgtttattg tcagtctaca aattagatat 180
tattattggt tttgttttat acaggcaaca tttatctgga ttgcataga tgtttacct 240
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<210> 94
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 94						
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<210> 95
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (791)..(791)
 <223> n equals a,t,g, or c

<400> 95						
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aactcgaggg	ngggc					795

<210> 96

<211> 762
 <212> DNA
 <213> Homo sapiens

<400> 96
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 aagtacagtt tcagcaaagc tgtttgaaac tctccattcc atttctatac cccacaagtt 660
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<210> 97
 <211> 1103
 <212> DNA
 <213> Homo sapiens

<400> 97
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 aaaaaaaaaa aaaaaactcg tag 1103

<210> 98
 <211> 1633
 <212> DNA
 <213> Homo sapiens

<400> 98
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<210> 99

<211> 1873

<212> DNA

<213> Homo sapiens

<400> 99

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 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (295)..(295)
 <223> n equals a,t,g, or c

<220>
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 <222> (875)..(875)
 <223> n equals a,t,g, or c

<220>
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 <222> (914)..(914)
 <223> n equals a,t,g, or c

<400> 101

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 <212> DNA
 <213> Homo sapiens

<400> 102						
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<210> 103
 <211> 776
 <212> DNA
 <213> Homo sapiens

<400> 103						
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 <211> 2895
 <212> DNA
 <213> Homo sapiens

<400> 104	
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aaactcagat	gatcctcctg
tggattttta	atggaatatg
ttgatttgat	cattataaga
tcattggatg	tttcattttt
ccaagaatag	ttatctactt
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ccacttccac	aggtggctgc
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aaaaaaaaaa	aaaaa					2895

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<220>
<221> misc_feature
<222> (874)..(874)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1201)..(1201)
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1266)..(1266)
<223> n equals a,t,g, or c
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<210> 106
 <211> 1155
 <212> DNA
 <213> Homo sapiens

<400> 106						
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<210> 107
 <211> 2566
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2553)..(2553)
 <223> n equals a,t,g, or c

<400> 107						
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<210> 108
 <211> 661
 <212> DNA
 <213> Homo sapiens

<400> 108						
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gtgtctgcat	ttctggagcc	cccagagcac	agaagttgcc	ggcactttga	ggtcttcctc	540
ggcatgtgcc	agattacatg	agtgaaggct	gggaatatgt	tttctttttt	gtaatggagg	600

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cgtgtttcac atatagtaaa gctcaccaaa aagtaaaaaa aaaaaaaaaa aaaaaactcg 660
a 661

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<210> 109
<211> 715
<212> DNA
<213> Homo sapiens

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<400> 109
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taaattccca agggctgaca tgattgacat ttgccatagc ctgaggaggg agcatttcct 180
tttgtggtct ttcccttggt ttgttttattt ggacagtgaat ggcaagtctg tctgtgtttc 240
tttgcttcac cccaaacacc ttggcaaaaa tgaaagcctt ctaatttagc tgtgtcctcc 300
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gctcattgca gccttgacct cactggagtg tagtggcatg actgcagctc actgcagtcc 480
caagtagctg gcacttacag gcaggtgccg ccatgcctgg ctaattttta aattttttgt 540
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aggccaaagc gggcggtatc cgaggtcagg agtttgagac cagcctggcc aacatggtga 660
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<210> 110
<211> 407
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (352)..(352)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (376)..(376)
<223> n equals a,t,g, or c

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<220>
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<222> (378)..(378)
<223> n equals a,t,g, or c

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agagataagt awggctkggc atkgattctt ytgktgtwac ctcaagtgt tttctagtcc 180
ccaagaacag caytytcagt ggggtgtggaa gtgggcggga catgaagcaa tggttttaca 240
ttgcattgac tggctacags ttggcatttc tttccttttt ctttttcttt gcgtcattgc 300
cattggtgcc actaattttg cttcccctyt cttttataaa cttgtttcct cnggagttgc 360
ctaagagtcc tgcatnanaa cctaattggg aatgaagcag tgtgttc 407

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<210> 111
<211> 711
<212> DNA
<213> Homo sapiens

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<400> 111

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cccaggaggt	aggggctacc	ttgaggggat	gatagacctc	ccccactccc	agtgkkactc	180
tggaaatatg	aaggaactag	ggagtggaa	agatttcaga	gctggggaga	ggagttcctc	240
ccttcaaagc	cagcaactgc	ctttggggaa	tgtcgggggg	tctctccttt	ctcctgcttg	300
tgtkargtgg	tacacagtcc	ccccttcacc	tggcgggaag	ctgtcccgga	cagactcatc	360
tcagctttcc	cttggggcag	gatcgggggc	agcagctcca	gcagaaacag	caggatctgg	420
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ggragctggg	cagcctcttc	caggccttcg	tgaagaggga	gagccaggct	tatgcgtaag	540
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tgggtggtaaa	gtggagcaat	cccttcacgc	tccttggcca	tgttctgagc	ggccagcttg	660
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<210> 112

<211> 875

<212> DNA

<213> Homo sapiens

<400> 112

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cacccctgcc	tgtgggatgt	tgtgagagga	acatgagcca	gacaaagact	tggctcaggg	420
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aaggaataac	ttaagaaatt	gattgattat	cttaataaac	tgtgcaaacc	caamrrraaa	840
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<210> 113

<211> 2152

<212> DNA

<213> Homo sapiens

<400> 113

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ctccctctgc	cacatttttt	ggagggttgg	aaagttgcta	gaggcttcag	aactccagcc	180
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<210> 114
 <211> 1555
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1248)..(1248)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1389)..(1389)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1391)..(1391)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1393)..(1393)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1396)..(1396)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1551)..(1551)
 <223> n equals a,t,g, or c

<400> 114

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aaattacaaa	aacattgccg	gatgctaaca	ctgactttta	ttatgaatgt	aaacaagaaa	1500
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<210> 115

<211> 575

<212> DNA

<213> Homo sapiens

<400> 115

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agaccctgtg	ctccatggaa	gaagccatca	atgagaggat	ccaggagggtc	gccggctccc	180
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gcggaggcg	ctccaggtcc	ggaggggttg	cgggggagct	ggaaataaac	ctggagatga	480
tgatgatgat	gatgatggaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	540
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<210> 116

<211> 1532

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1412)..(1412)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1433)..(1433)

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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1446)..(1446)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1505)..(1505)
<223> n equals a,t,g, or c

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cagcattgct gctaggctcc tcctgcagat catctgaaat gaacctctct tattgatttt      180
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cctgggtgtt gtcatacata acatatggac cagtgtgatg gtgaaatgag atgaggctcc      300
gcaatggaac tgtagccact gctttagcat ttatcacttc cttccttact ttgtcttggg      360
atactacatg gcaaaatggg aaaggtaagg aaaatgactc ggaaaatgtg catgaaatgt      420
actaggggtt ttgcttggtt aagggtgccta aatgcttagg tcaaataccc tggcaatctg      480
catgttacat gctatctgct ggcagtttct ttctgatata aaaatgaaac agtattcttg      540
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ataataaaga ctttcgtttt ggcattttgt tctttttact aaacataatt aagtgtttaa      720
taagcttcct tgtaccgagt gttgcataaa acacttaaaa ggacacaatt agtgccttcg      780
tgagatttac atgctaatta tgctaaygat tgggtgctat gtagttaatg atttaaactg      840
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gtcatcacct gggctwtttg aagctgctgt tgctgatggt gttttattga ctcatgaaga     1200
caactgaaaa gattgctttg taaccttatt tttttctgat gtgtgtttac atccatgtct     1260
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taagtgaaaa catgctctgt gctttgaaac aaaaaaaaaa aaaaaaaact cgaggggggg     1380
cccggtaacc aattcgccct atagtgaatc gnattacaat tcactggccg cgntttacaa     1440
cgtcgngact gggaaaaccc tggcgttacc caactaatc gccttgccgc acatccccct     1500
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<210> 117
<211> 1559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1445)..(1445)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1551)..(1551)
<223> n equals a,t,g, or c

<400> 117
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gcggacacca	gcgactccc	ggcgttggag	aaccgagggg	cgatgccag	catggcctgc	240
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<210> 118
 <211> 1231
 <212> DNA
 <213> Homo sapiens

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<210> 119
 <211> 1189
 <212> DNA

<213> Homo sapiens

<400> 119

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<210> 120

<211> 3153

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2584)..(2584)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (2590)..(2590)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (3153)..(3153)

<223> n equals a,t,g, or c

<400> 120

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gatgtttgga tggagctttg tctttgagga ctttgtctct gatgagctg gaaacaaaagc      360
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<210> 121
 <211> 2496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2340)..(2340)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2373)..(2373)
 <223> n equals a,t,g, or c

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gggtccctag aggccggttc ctggtctgtg ctgctctcct ggaagccatg gtacaggcag      180
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ccgggtagat gcgggggtgga gaagaaagga tgttgccctgc actgctcgcc aatagcacc      300
tgagaggcta catttgacaga agcagcagca gcagaagaca cagcgccggt ccaggaggcg      360
gctcgagctg ttcgtaaagt cgcccgacag ctttttctcc gtagtatgcg agttgacaaa      420
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<210> 122
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (919)..(919)

<223> n equals a,t,g, or c

<400> 122

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tgatatttta caaatatgac agtcagattc ttttcaattg gaaaaggtaa aactccgaaa 180
cagttttttt atttttaact tttaatcctt gttttcacct catcctgctt atattaaatt 240
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attggacttg tgatgcgact ttgccaatcc gtatctctcc tggaaactgct gcacatatat 360
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aaaaaaaaaa aaaaaaaaaa aaaaaaamaa aaaaaaaaaa a 1001
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<210> 123

<211> 1142

<212> DNA

<213> Homo sapiens

<400> 123

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caaggaggac ttcgttttgc tcatcttctg gatcaggtct ccagagtaga tcctgaaatg 180
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gtgttgaggg ccatgaggag gggatattca agagaagctt atgtggagtt agttcaccat 360
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gagacggagg aagatcacgt ccagacagtc tctttgctcc gggaaagttca gtacaacatg 480
ggcttctctt ttgcctacag catgagacag aagacacggg catatcatag gctgagat 540
gatgtcccgg aagaggtaaa attaaggcgt ttggaggaaac tcatcactat cttccgagaa 600
gaagcaacaa aagccaatca gacctctgtg ggctgtaccc agttgggtgct agtggaaggg 660
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gtgtctcttt aaagctgcta tgtgaacagc ttttacagtc attaaattta cctaaactaa 1080
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ct 1142
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<210> 124

<211> 2238

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (12)..(12)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (45)..(45)
 <223> n equals a,t,g, or c

<400> 124
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 cacctggctg gcaccgtctg cgtcctgctg tccttccccct tcattcttcag cccctgcctg 300
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 <211> 1052
 <212> DNA
 <213> Homo sapiens

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aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aa		1052

<210> 126
 <211> 1492
 <212> DNA
 <213> Homo sapiens

<400> 126						
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<210> 127
 <211> 1794
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1675)..(1675)
 <223> n equals a,t,g, or c

<400> 127

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cttctgtggt	ctcctgcaga	atcagtctat	aaaaagggca	tggtaaaaaa	aaactatct	300
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<210> 128

<211> 1346

<212> DNA

<213> Homo sapiens

<400> 128

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gagcacggcc	ggccaatcgc	cgagtcagag	ggccaggagg	ggcgcgcca	ttcgccgcc	180
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aacaggctgg	cagctcgtc	ctgctgccc	caggagccag	gcctactcta	ctgggaaggc	1260
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<210> 129

<211> 1262

<212> DNA

<213> Homo sapiens

<400> 129

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gatggtttga	tggtgtgtg	gtatactgga	ggggagggca	ggactctggg	agaacagcac	360
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<210> 130

<211> 2572

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2527)..(2527)

<223> n equals a,t,g, or c

<400> 130

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catgggcgca	cttggtgcgt	gcaccaccct	gtgcctgggc	tactacaaga	acattcacga	180
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<210> 131
 <211> 1488
 <212> DNA
 <213> Homo sapiens

<400> 131						
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tggactcctc	atgtgctttg	aaatatctcag	atattaggac	tggaaagagaa	agctcactcc	1080
cctctaagga	ggctcttgaa	ccctctggag	agaacgtcat	ccaaaacaaa	gagagcacag	1140
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<210> 132

<211> 704

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (287)..(287)

<223> n equals a,t,g, or c

<400> 132

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ctctcgcaaa	caaagacagc	cacttcagag	ctcctaggaa	atagtgggtc	tcccatcatc	180
attgcattcc	ttaatsacat	ggtgaaaatt	aacaatggct	aaggagcctt	tgtttttct	240
cctctacaat	atgccagga	atttctggca	ttttggccat	cttattnata	ggctattact	300
gaatttmagc	ctmatcctmc	caaattatta	atgccaaaat	attaactctt	gattccttagg	360
tgagtgcacc	catgccaata	aatttgccat	gatctaacct	taaatgtatt	ctcatatatg	420
ctgtccaagt	ttctrtgat	taaaatggca	aggccttttag	ttctcctaca	taggttttct	480
ctctccagag	aaggcctcaa	ttctctgact	aggctatgtt	gggatataac	tgagggcact	540
aataggtagt	agggtaaatt	ctttatttta	ttatttttgg	agacagggag	ggtcttgctt	600
tgttcagact	ggagtgcagt	ggtgtgatca	tggtcattg	caactttga	ctcctgggcg	660
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<210> 133

<211> 1022

<212> DNA

<213> Homo sapiens

<400> 133

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acacactgat	gctcaaatcc	taagggtgcca	agctctaggc	cctggaggct	ggtagaacag	180
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gctgttatca	cttccttctg	aggaacatag	ccagaagcag	atgagccagg	gtagagggtc	420
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gaaacaagct	agaacaaccc	tggcccagaa	gactgtgcac	tcagcaaga	tccagggatg	720
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cg						1022

<210> 134

<211> 1766

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (36)..(36)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1750)..(1750)
<223> n equals a,t,g, or c

<400> 134
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tgtttatgga ggggtccagta agtgcaaaca accattgcct ggtcctaagg gttcagagtc 120
cccgaattcc ttcttggacc aggaaagccg gagacgaaga ttcaccattg cagactcgga 180
tcagttgcct ggggtactcg tggaaccac ctttctgccc acaaaaatga gagagaaaac 240
accatcttat ggcaagccac ggcctttgtc catgcctgct gatgggaact ggatggggat 300
tgtggaccct tttgccagac ctcgagggtc tggcaggaaa ggggaggatg ccctttgccg 360
gtatttcagt aacgagcgga ttctccgat cattgaagag agtcctctc cccataaccg 420
gttctccaga cccacgaccg agcggcatct ggtccggggg gcggactaca tccgaggaag 480
caggtgctac atcaactcag atctccacag cagcgccacg attccattcc aggaggaag 540
gaccaaaaag aaatctggct cctcagctac gagtcctcgt ccacagaacc gtccctcctg 600
gtcagctggt ttacgcgcct caactgttg actcactgag agggaccctg ctcaggccac 660
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cctcagtatt atgtagggac cttatgcaat ttctttttct tttgaaaagt tatctactgc 780
ccttcttga agtttgacag attggatggg aacaaattca gaggatctta ggtgtggct 840
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cacagatgtg ttggtttgtg gtccaacttc tttatctgaa aaagccagtg agaaaacatt 1080
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tttgtagaa tggaagagta ctatcttgtt aatttaagta tttaaatat agttgtatat 1680
ttttcttaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgctctagag gatcccgcga 1740
ggggcccan attacgcgtg agcgtt 1766

<210> 135
<211> 989
<212> DNA
<213> Homo sapiens

<400> 135
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ctcttccacg	ggaccctgca	gctggggccag	gccctcaacg	gtgtgtacag	gaccacggag	180
ggacggctga	caaaggccag	gaacagcctg	ggtctctatg	gcgacaat	agaactcctg	240
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gcagggagga	gctgcctggt	cactgggatc	agccagggcg	ccgggccccca	cttctgagca	840
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gtggaggaag	gacatgtacc	ctttcatgcc	tacacacccc	tcattaaagc	agagtcgtgg	960
catctcaaaa	aaaaaaaaaa	aaaaaaaaaa				989

<210> 136
 <211> 2286
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2262)..(2262)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2264)..(2264)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2272)..(2272)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2278)..(2279)
 <223> n equals a,t,g, or c

<400> 136						
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ggttctgtgg	gccttcgtct	tgggcctatc	cagggtcatg	ctggggcggc	acaatgtcac	120
cgacgtagct	tttggtttt	ttctgggcta	catgcagtac	agcatcgtgg	actattgctg	180
gctctcacc	cataatgtc	cggctcctct	tttactgtgg	agtcaacgat	gacaccatct	240
cattgattat	ggcaccagga	agtctgaagg	tttccacatt	cgatgatgtc	aacctaaacc	300
agcagccatc	ccgcttgctc	ctcttaggca	tttcaggctt	ccttgggat	ttcagggtgc	360
ccatgatctt	gatgtgctgc	taggctggag	cacacactgg	ccattactga	acacagccat	420
attagggaaa	gcaaaaaaac	ccaaaaaatc	ctctattgta	tatttattca	acaactgttt	480
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tcctgatatt	cttggttaagc	ttttttactt	tattatctct	ataatttatt	atctctatcc	840

atattttgtgg	atcgggtagt	gggaaaagag	attataatac	ttgtctttct	ctcctctccc	900
tccatccctc	aaaagatctt	tatgcatttc	ccactactcc	cttactgtct	tttagcattc	960
agagaaaaag	ccaacttgct	taaagaggaa	tcacttaaaa	ggtaggcata	tctaagatgc	1020
tcatagaaga	ggaagaatgg	gacatggccc	catgcttatt	tttgtttaca	acgtaacatg	1080
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cagtcacttc	cactgaataa	agaataatgc	tcctctttca	gggtaataaa	gtggggaaaa	1260
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tagtga						2286

<210> 137
 <211> 1240
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1225)..(1225)
 <223> n equals a,t,g, or c

<400> 137						
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aaacatgac	ccccacgccc	agccaacaca	aaacttctga	tgctctgttt	tctcatctgt	120
gaactggagc	taaggctaag	tggctctgtct	gtttaataag	agtttgac	agatggcctg	180
gcatgaagag	tcactggcct	gagagaatgt	caggggcatt	tgtaaagtgt	taaagggctg	240
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aatgattaac attttttctct tgggntatca aaatttgcatt

1240

<210> 138
<211> 997
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (963)..(963)
<223> n equals a,t,g, or c

<400> 138
cccgaactcta ggccggaagc gcgcggagac catgagtga gaccctcgcg aggtctgaga 60
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cgccccgagg cggtagcttc agagcctcca gtgcctgttg ggctggaggt gaagttgggg 180
gccctgggtgc tgctgtgtgt gctcaccctc ctctgcagcc tggtgcccat ctgtgtgctg 240
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<210> 139
<211> 2383
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (538)..(538)
<223> n equals a,t,g, or c

<400> 139
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gattccagtc aagtgtctac atttctgatt tccattcttc ttatagtcta tggtagttty 120
aggtccctta atatggactt tgaaaatcaa gataaggaga aagacagtaa tagttcttct 180
gggtctttca atggcaacag caccaataat agcatccaaa caattgactc taccaggtct 240
ctgttccttc caattggagc atctgtctct cttttagtaa tgttcttctt ctttgactca 300
gttcaagtag tttttacaat atgtacagca gttcttgcaa cgatagcttttgcctttctt 360
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ggttgctgtg gacgtttcac tgctgtgag ttgctgtcat tctctctgtc tgtcatgtct 480
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aacgtcatgg tgaagggtgc cactcagccg gctgacaate cccttgacgt tctatcccgg 720
aagctccacc tggggcccaa tgttggcgt gatgttctc gcctgtctct gcctggaaaa 780
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atgcctgggtc tcctactatg ctttgtcctt cgctatgaca actacaaaaa gcaagccagt 900

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ttttatggat	ctgcaccaga	ctgttacctt	ctgggggaga	tggagatttg	actgtttaaa	1500
aactgaaaac	agcgaggagt	ctttctagaa	cttttgaaca	ctaaaaggat	gaaaaaaatt	1560
agcaaaccga	agtttcttca	atgacccctc	gagacttttg	ggaccagttt	cctatrgggg	1620
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tgacaggggc	ttgctgtcgt	tttgagcatg	tcgagcagtt	tactgtggct	tccttgata	1980
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tttgtgtgta	ttgatgatag	actcatggac	ttcaggagcc	cttacttggg	tttgatcagt	2100
gtagcaaat	agggatgaag	agttcaaacc	ttttggccct	ttctttcttt	tctaggcttc	2160
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tttttttgta	tttttttttg	acattttgtt	tcattgggtg	gctgtatatt	ttccatgccc	2340
tcactccttt	aagaaaaaaa	aaaaaaaagg	aaaaaagcaa	cac		2383

<210> 140
 <211> 2081
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (538)..(538)
 <223> n equals a,t,g, or c

<400> 140						
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cagaatctaa	tgcagagtac	cttgctcatt	tggtgccagg	agcccacgtg	gtaaaacat	120
ttaacaccat	ctcagcctgg	gctctccagt	caggagcact	ggatgcaagt	cggcaggtgt	180
ttgtgtgtgg	aaatgacagc	aaagccaagc	aaagagtgat	ggatattggt	cgtaatcttg	240
gacttactcc	aatggatcaa	ggatcactca	tggcagccaa	agaaattgaa	aagtaccccc	300
tgcagctatt	tccaatgtgg	aggttccctt	tctatttgtc	tgtgtgtgctg	tgtgtcttct	360
tgtttttcta	ttgtgttata	agagacgtaa	tctaccctta	tgtttatgaa	aagaaagata	420
atacatttcg	tatggctatt	tccattccaa	atcgtatctt	tccaataaca	gcacttacac	480
tgcttgcttt	ggtttactcc	ctggtgttat	tgttgccatt	ctacaactgtac	cgagggnca	540
caaaataaccg	tcgattccca	gactggcttg	accattggat	gctttgccga	aagcagcttg	600
gcttggtagc	tctgggattt	gccttccttc	awgtcctctm	cmcacttggtg	attcctattc	660
gatattatgt	acgatgraga	ttgggaaact	taaccgttac	ccagscaata	ctcaagaagg	720
agaatccatt	tagacytcty	tcagcctggc	tcagtgatcc	atatgtgggt	ttgggaatac	780
ttgggttttt	tctgtttgta	ctcttgggaa	tcacttcttt	gccatctgtt	agcaatgcag	840
tcaactggag	agagttccga	tttgtccagt	ccaaactggg	ttatttgacc	ctgatcttgt	900
gtacagccca	caccctggtg	tacggtggga	agagattcct	cagccttca	aatctcagat	960
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aaggaactca	aaacactaga	aaaagcattg	aatggaaaat	caatatttaa	aacaaagttc	1140
aatttagctg	gattttctgaa	ctatggtttt	gaatgtttta	agaagaatga	tgggtacagt	1200

taggaaagtt	tttttcttac	accgtgactg	agggaaacat	tgcttgtctt	tgagaaattg	1260
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cctgactctt	attttcccag	aggccatgga	gctgagattg	agactagcct	tgtggtttca	1380
cactaaagag	tttcttgtt	atgggcaaca	tgcatgacct	aatgtcttgc	aaaatccaat	1440
agaagtattg	cagcttcctt	ctctggctca	agggtgagt	taagtgaag	gaaaaacagc	1500
acaatggtga	ccactgataa	aggctttatt	aggatatct	gaggaagtgg	gtcacatgaa	1560
atgtaaaaag	ggaatgaggt	ttttgttgtt	ttttggaagt	aaaggcaaac	ataaatatta	1620
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agcaaagaag	ggttgataaa	agttcttgat	caaaaagttc	aaagaaacca	gaattttaga	1920
cagcaagcta	aataaatatt	gtaaaattgc	actatattag	gttaagtatt	atntaggtat	1980
tataatatgc	tttgtaaaat	ttatatcca	aatattgctc	aatatTTTTc	atctatataa	2040
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<210> 141
 <211> 646
 <212> DNA
 <213> Homo sapiens

<400> 141						
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gttccaggac	ctggaacact	ttaacagaag	gaaatgccga	agcagcttgc	acagttgctt	120
tacagacttc	caagaggctg	attctggctt	caagatggag	ccttggagtt	ggtttttttt	180
tttttttttt	ttcttccctc	aaagaacctg	cggttgcgct	ttgtgtgttt	tgttttttgtt	240
ttccatttgg	gggccccatg	ggaaagagct	tctgaactct	ttcctttatg	aactcccact	300
gtgttcctat	aaaggccctt	ttctttctta	gtgttgtaag	ttacattttc	attatgcccc	360
atcacatctt	ctttactgta	aaaatattaa	aaagctgttt	ccaagtggga	cagctaataga	420
agctctaatt	attgcagaca	tatttttgag	atgtaaaaaa	aaaaatttaa	agttaaataga	480
taagtcttag	aggcgagtga	ggaataaaaat	ggatgtaaac	atttacatgg	gatgcattag	540
aattctgctg	tgtgtactgt	cttttggttg	aaacaaatta	tgaacagtga	ctaataataa	600
aaagtcaata	cccaawraaa	aaaaaaaaa	aaaaaaaaag	gcggcc		646

<210> 142
 <211> 312
 <212> DNA
 <213> Homo sapiens

<400> 142						
aattcccggg	tcgaccacg	cgtccgtgat	gagtggattt	gtactcttac	ccaggtcctg	60
agggccagcc	cacccagcat	ccccaccctt	gatgacgctg	tccctacaac	tggtgaact	120
ggtgcatttt	gtgtgtgcct	tccagagca	gtggactggt	gtgtatccaa	tgatgccacc	180
tctgaaacct	acagaaccac	tatgctttgc	atgtgtaccc	tgcagggtct	gagggccagg	240
ctgtctggta	gctctgctcc	tgggtgacag	agcaagactc	tgtctcaaaa	aaaaaaaaa	300
aggcgccgc	ct					312

<210> 143
 <211> 770
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (770)..(770)
 <223> n equals a,t,g, or c

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<400> 143
atgtgctggg ctcaggaaaa gttcaaccca tcaatagggt atcacatata tatactctgg      60
gactgattgg accacatttt ctcactgaat tgactgattg atgaattcag ttggcagaat      120
taactcttct atgtctacat gaagtgccat ttagaaataa tcaactctta atcagcctgg      180
gatagtcagt actaaaagca ccttcatgag ctgtgaaaaa tttaatgcat ttattttacat      240
athtagtttt aaatttttagt atattgttag ttgagggtata gtttccaaac aaagagcgt      300
gaaatgttta gtaactgtct ctgtacctct ggatgaggac agctcagccg ggaatggagg      360
gggactgggt gaggagacca gaatgtcagt gtggccacgc agcacacttt tgttttgtct      420
tctgtccctg agcactggct tgttcctgga taaactaggc ataataatac ctatcctgct      480
gtgtgggtgg aagggttaaat gtgataatga tgtgtgtgag atgcctgcac agtgcctgga      540
ggtattgaag aattatttgc tgccttttct ttttctacct accacttacc cgctaccccc      600
gggtgctaca tgtagaaaa cactgtgtaa agtgtggatg cttctgaaaa atctccctgc      660
cagcagttag tgccaatagc gtgcagaaaa taagatgcaa tgatttggct tttttctgt      720
ttggcaataa gaagcttatt tgcacatagc ctgatttctt tcaatctgcn      770

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<210> 144

<211> 1276

<212> DNA

<213> Homo sapiens

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<400> 144
tcgacccacg cgtccgcccc cgcgcccgct taatatctgt attcccagtt gcctacggga      60
taaaagcccc aactccttag cagagaatat aaggccctag ctcccacatt atttcagcag      120
tcatacccca ctatgttcct caagactgca gccattaact ttttagagtt ccctaaacat      180
gctgtttact ttcatagcctc tatcccgttg tctgtggaat gacttccctc cttgcccttt      240
tcagtgtctac aaacccctat tctttaagac atagtacaaa tggcatctcctgggtggcat      300
ctttcctgca ggccacagc cctagtaagt atcttccctc tctgtgtctc tgcataacctc      360
cattcccttg ttatgacatc tataacttta ataagtacta aaatctgtag tccatacaaaa      420
ctcaggcata gaactcattt cctttatggy tctataatgg aactttacct aactctcacg      480
ttccccatga ccacagatgt ggaaaatttg aatcttgaca gttcaagggtg aactcagtca      540
ttttcagagt tttcatagtc cttcaagat tgaaactcag ttccctgcaat gtttgccct      600
tttctcctct tttgtctatg ctgggagagg cattgtgggg aggggtgtct ggcttatggc      660
tcccattgtc ctctgcttga taaaccaccc gagctttggt cattgcagt ctctgtgcc      720
tttcacactc aggtagtgtc tgcacaggcc actctatgtc ttttccatgc tgaagaaatt      780
ccttccctcagg ccattgtctg tttcctcctg ccacacagga aatttttgag catgttcatc      840
ctccaagctg aatgcagggt cttgggtagt ggtcctcacc tgcctccagag acttctccag      900
ccattgccac tctccactca ggtgatgaag ctggatgagg gactgcaccc accagagtca      960
ggccagggtc ctgtctgtct tgtgagtccc tccaattgtt cttattccga gatttccatt      1020
gttctgcccc ctcttgactc ccagggtctct caagggtagt ggggtagtga agggagccct      1080
ttcccaagct ccccaagag ctctagtca atcacttctgatacttcttt tcccaccagc      1140
tggaagaaaag aactttcatt tgtcttgaaa tgagaaaaat gttcttagaa tattttgtat      1200
tactctctgc tctgtcattt atggtaaaaca aaataaaata ataaaaaaa aaaaaaaaaa      1260
aaaaaaaaag gcggcc      1276

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<210> 145

<211> 1223

<212> DNA

<213> Homo sapiens

```

<400> 145
gctgctccgt ttttcccca tctttgtggt tttatctacc tttggctctt gatgatgggt      60
atgtacagat ggggttttgg tgtggatgtc ctttctgttt gttagttttc cttctaacag      120
tcaggaccgg cagcttcarg tctgttggag tttgctggg gtccactcca gacctcttt      180
gcctgggtat cagcagcaga agctgcagaa cagcggatat tgggtaacag cagatgttgc      240
tgctgatcgt ttcctctgga agttttgtct cggagtaccc agccatgtga ggtgtcagtc      300
taccctactc gggggatgcc tcccagttag gctacttggg agtcaggggac gcacttgagg      360
aggcactctg tctgttctca gatgtccagc tgtgtgctgg tagaaccagt gctctyttca      420

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aggctktcag	acagggacgt	taaagtctgc	agaggattct	gctgcctttt	gtttggctgt	480
gccctgcccc	ccagaggtgg	agtctacaga	ggcaggcagg	cctccttgaa	ttgcggtggg	540
ctccaccgag	ttcagagtttc	ctggccgctt	tgttacccc	ctcaagcctc	ggcaatgggtg	600
ggcgccccctc	ccccagcctc	actgccgsct	tgcagtttga	tctcagactg	ctgtgctagc	660
aatgaktrag	gctctgtggg	tgtagracc	tctgagccag	gcatgggata	taatctcctg	720
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ctattcggcc	atcttggctc	cacctgtcga	gatattttac	attaactttc	tatgacatac	1080
ttatagcaaa	acttattttt	tcatgcagaa	tagtctatat	tctatattta	ttgtaaagca	1140
tataccgtac	atgggtgacta	gtcaccatgc	tgtacaataa	attttctgaa	cttaataaam	1200
aaaaaawaaa	aaagggcggc	cgc				1223

<210> 146
 <211> 864
 <212> DNA
 <213> Homo sapiens

<400> 146						
ggcacgagcg	gaccggggccc	gcgggggctgc	tgcgggggcga	tcggggccggg	ccgctgccgc	60
gccatggact	cccgtgtcca	gcctgagttc	cagcctcact	gagtggccac	ccccaaagtg	120
ctgccagccg	aggaagcccc	cagcactgac	catgtctatt	atggaccaca	gccccaccac	180
gggctgtgtc	acagtcacgc	tcatectcat	tgccatcgcg	gccctggggg	cctttgatcc	240
tgggctgctg	gtgctacctg	cggctgcagc	gcctcagcca	gtcagaggac	gaggagagac	300
tcgtggggga	tggggagacc	aaggaaccct	tctgtctggt	gcagtattcg	gccaarggac	360
cgtgcgtgga	gagaaaggcc	aagctgatka	mtcccaaacg	gscgggaart	ycacggstga	420
vccaggatgc	aaaggccycc	tggtccctgt	ttgcaagccg	gccaagargg	ggctgggagg	480
ggcaaaamcc	atacggatgc	gdgctgtct	gagagggaag	gctgacactt	gctggcatgg	540
cctctgcggg	tttcgtccat	cgcctgcact	gatgcccggg	gacttggctg	tcctgggctt	600
cccctcggcc	tccaggtgag	gctgcccatt	gcaggcactg	ggtaggcctg	accttgctgg	660
ggctcatggc	cctgtagcgc	ttttgttact	tgaatgtcta	gctgagcctg	ttttgatgg	720
agctactact	gtaatgcgtg	aactaacaaa	cctgtgaact	gtaaataggc	ccctggaagc	780
acgtgcttaa	gcccttttgc	tgatttttaa	aaatatcatc	tagcgcaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaaaaaaaa	aaaa				864

<210> 147
 <211> 1267
 <212> DNA
 <213> Homo sapiens

<400> 147						
ggcacgagct	gcaggggagc	ggcgggcgcca	agcgagggga	gccccgctga	gtggcagccc	60
agattgaaga	tggatacgtg	acaatcccag	ggaccgctgc	actgacttca	tttccttaga	120
caagacacag	tgtaggggcc	ggcccgtgtt	ggccccagga	ctccttttga	aattagctgt	180
ggacaatgaa	tccctgcgagc	gatgggggca	catcagagag	cattttttgac	ctggactatg	240
catcctgggg	gatccgctcc	acgctgatgg	tcgctggctt	tgtcttctac	ttgggcgtct	300
ttgtggctct	ccaccagctg	tcctcttccc	tgaatgccac	ttaccgttct	ttgggtggcca	360
gagagaaggt	cttctgggac	ctggcgggcca	cgcgtgcagt	ctttgggtgt	cagagcacag	420
ccgcagctgt	gggctctgct	gggggacctt	gtgctgcatg	ccgacaaggc	gcgtggccag	480
cagaactggt	gctgggttca	catcacgaca	gcaacgggat	tccttttgc	tgaaaatgtt	540
gcagtccacc	tgtccaactt	gatcttccgg	acatttgact	tgtttctgtt	tatccaccat	600
ctctttgcct	ttcttgggtt	tcttggctgc	ttgggtcaatc	tccaagctgg	ccactatcta	660
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ttaaaggcgg	gctgggtccga	gtctctgttt	tggaaactca	accagtggtt	gatgattcac	780
atgttttact	gccgcagtgt	tctaacctac	cacatgtggt	gggtgtgttt	ctggcactgg	840

gacggcctgg	tcagcagcct	gtatctgctt	catttgacac	tgttccttgt	cggactggct	900
ctgcttacgc	taatcattaa	tccatatttg	acccataaga	agactcagca	gcttctcaat	960
ccggtggact	ggaacttcgc	acagccagaa	gccaagagca	gccagaagg	caacgggcag	1020
ctgctgcgga	agaagaggcc	atagctgctc	cagccggggc	tccggggcgg	cagcagagct	1080
ggcacaccga	tcttggaag	ccccgcgaat	gatggctttt	gaattaatga	ggcagtgaat	1140
gttttgtgtt	tacttctaag	ggaaatacta	atctttcttc	gcattagtat	taattttgaa	1200
gtagctacaa	agtatttttta	agaaattata	attttatgac	tgtcaaaaaa	aaaaaaaaaa	1260
aaaaaaaa						1267

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<220>  
<221> misc_feature  
<222> (1)..(1)  
<223> n equals a,t,g, or c
```

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<220>
<221> misc_feature
<222> (1200)..(1200)
<223> n equals a,t,g, or c
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<400> 148							
nagatggcgc	tacgtctgct	gcggagggcg	gcgcgcggag	ctgcgcgggc	ggcgtctgctg		60
aggctgaaag	cgtctctagc	agctgataac	cccagacttg	gatatagttc	ctcatcccat		120
cacaagtaca	tcccccgag	ggcagtgctt	tatgtacctg	gaaatgatga	aaagaaaata		180
aagaagattc	catccctgaa	ttagattgt	gcagtgctcg	actgtgagga	tggagtggt		240
gcaaacaaaa	agaatgaagc	tcgactgaga	attgtaaaaa	ctcttgaaaga	cattgatctg		300
ggccctactg	aaaaatgtgt	gcaggtcaac	tcagtttcca	gtggctctggc	ggaagaagac		360
ctagagaccc	ttttgcaatc	ccgggtcctt	ccttccagcc	tgatgctacc	aagggtgaa		420
agtcctgaag	aaatccagtg	gtttgcagac	aaattttcat	tcacttaaaa	aggccgaaaa		480
cttgaacaac	caatgaatth	aatccctttt	gtggaaactg	caatgggttt	gctcaattht		540
aaggcagtg	gtgaagaaac	cctgaaggtc	gggcctcaag	taggtctctt	tctagatgca		600
gtcgthtttg	gaggagaaga	ctttcgagcc	agcataggtg	caacaagtag	taaagaaacc		660
ctggatatth	tctacgccc	gcaaaagatt	gttgtcatg	cgaagacctt	tggctctcaa		720
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gtccaggagc	agthttctcc	ttcccttgaa	aaaattaaagt	gggctgaaga	actgattgct		900
gcctthtaag	aacatcaaca	attaggaaa	ggggccttht	ctthccaagg	gagtatgatc		960
gacatgccat	tactgaagca	ggcccagaac	actgttacgc	ttgccacctc	catcaaggaa		1020
aaatgatctg	ttaaattgaag	ctgtcatcag	gctaaagggg	attgaagctg	cagaggggac		1080
aacttgtgct	tgccagagga	gcgcaattgaa	gtttgaaaca	ccaacaatca	gagatthttg		1140
ttctgttctt	cattaaatca	tgagctthttg	tgcccagagac	tctggacgga	ctgtthcttn		1200
aggaatthta	ccggatggga	agthttthta	actthtncaa	caactthttt	taaggccc		1258

<210> 149
 <211> 883
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> misc_feature
 <222> (19)..(19)
 <223> n equals a,t,g, or c

<400> 149
 gtcaccgtgg gcgtttaant atgatccccg gctcagattc gcagactgca ctgaacttcg 60
 gctctacgtt gatgaagaag aagtctgata ctgagggtcc cgcgctgctc ttccctgaga 120
 gtgaactttc catccggata ggtagagctg ggcttctttc agacaagagt gagaatggtg 180
 aggcataatca gagaaagaag gcggcagcca ctggccttcc agagggtcct gctgtccctg 240
 tgccttctcg agggaaatctg gcacagcccc gcggcagcag tggaggagg atcgcaactgc 300
 tcatcttggc catcactata cacaacgttc cagagggtct cgctgttggg gttggatttg 360
 gggctataga aaagacggca tctgctacct ttgagagtgc caggaatttg gccattggaa 420
 tcgggatcca gaatttcccc gagggccttg ctgtcagcct tcccttgoga ggggcaggct 480
 tctccacctg gagagctttc tggatggggc agctgagcgg catggtggag cccctggcgg 540
 gggcttttgg tgcttttgcc gtggtgctgg ctgagcccat cctgcccctac gctctggcct 600
 ttgctgcccg tgccatgggtc tacgtgggtc tggacgacat catccccgaa gccagatca 660
 gtggtaatgg gaaactggca tcctgggcct ccatcgggg atttgtagtg atgatgtcac 720
 tggacgttgg cctgggctag ggctgagacg cttcggaccc cgggaaaggc catacgaaga 780
 aacagcagtg gttggcttct atgggacaac aagcttcttt cttcacatta aaactttttt 840
 ccktctctc ttcttcaaaa aaaaaaaaaa aaaaaaactc gag 883

<210> 150
 <211> 1465
 <212> DNA
 <213> Homo sapiens

<400> 150
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 gtctcgaaaa aaaaaaagtt ggaagcagaa gtaaaaaaca tggtaaagaa tgagaactaa 120
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<212> DNA
<213> Homo sapiens

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<211> 596
<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<221> misc_feature
<222> (8)..(8)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (57)..(57)
<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> n equals a,t,g, or c

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 <211> 629
 <212> DNA
 <213> Homo sapiens

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<210> 154
 <211> 2497
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 155						
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<210> 156
 <211> 1123

<212> DNA
 <213> Homo sapiens
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 <221> misc_feature
 <222> (213)..(213)
 <223> n equals a,t,g, or c

<400> 156
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 <211> 3388
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

<400> 158						
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ctggccctgc	tcctgggcct	ctacctggcc	accgtgcgca	gtgacctgag	cacctttcac	180
ctgctggcct	acagtggcta	caaatacgtg	ggaatgatcc	tcagtgtgct	cacggggctg	240
ctgttcggca	gcgatggcta	ctacgtggcg	ctggcctgga	cctcatcggc	gctcatgtac	300
ttcattgtgc	gctcttttgc	gacagcagcc	ctgggccccg	acagcatggg	gggccccgtc	360
ccccggcagc	gtctccagct	ctacctgact	ctgggagctg	cagccttcca	gccctcatc	420
atatactggc	tgacttttcca	cctgggtccgg	tgacccccctg	gccccagatg	gcaactgagtt	480
tttcattcat	tgaagatttg	atttccttga	aaaaaaaaaa	aaaaaaaaaa		529

<210> 159
 <211> 1146
 <212> DNA
 <213> Homo sapiens

```

<400> 159
cccgtccaca atgcagcaga ctcttcccaa ggccacctag caagcaaggt tgatcggatc      60
atctaaactg gccgcctcct gaatatctca ctgaatcctg gcgttcatgt tgaagcagac      120
aaaatgagaa aggaggaggg cattgctcac ctctcaatag cttttttcgt tcaagttcta      180
tgtctttatc agctcttgcc tgtgatttta ccccaattca accttgggag tgggaagaat      240
atgaacagat aacccttggc ctaacagctc catcaaacct ccttgagagc aactacctag      300
gccaggctag tgagtgcctt gtgaggaagc tggtcagaag gttccctcaa ctcttctctg      360
gtcctcctgg acactgcaga aaagcttag gggatcccca gcagaggcca attgctctcc      420
ttccttccct gccccaccag gaaaggaata acgtccacag acttgaagca gatagtgaag      480
tagatctgtg agaggttcta ggtacttagt gtgtagactt tgacgaatat ttctcaagtt      540
gggagccctt gttaaaaatg atgtttaagg gagtggttgg ggggaagatg aaggatgga      600
ggaggaagaa gagaaggaag cccttgccat ataaaattca tgcagactaa acagtttccc      660
tgacagaata aataaagtgg atgctacccc actccagaat caaaagcaat ttaattaaag      720
tctcttaagt tgtaaagagt tttaaagtat ccgtgttgaa ggcgaatsct gcyaaatgca      780
gtgggtctga cgtcagctg cgggcctggg ctgggaggcc atttgctatt ctgtttaagg      840
caggctggat tgtcttattt tggaaaccagc ttgggtggggg gtttgctttg ctactgcttc      900
tgagccctga gcttcaaagg ctgaaattaa tggatgaaca aattgtgcgg ctctggccat      960
cccatgcggg caagcccatt gagggttatc attaatgaaa gaaataaagagggggaaaaa      1020
agcctgcctg ttccaaaaac ctcatcagat aatgacctca gtgattgggt ttctattacc      1080
aaacagcatc cagagattat caaccatag aagaaggagg gggaaaaaaa aaaaaaaaaa      1140
aaattc
1146

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<210> 160
<211> 1346
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (537)..(537)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (880)..(880)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1115)..(1115)
<223> n equals a,t,g, or c

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<400> 160
ggcagagggt tgtgaagggt aaagttaaaa cccctctgct tagccctgc ctccagcctc      60
tgccaggagt aatgtgctcc catagtactc tgatccactt gtatttggtg ctctcttttt      120
tttttctttt ccttcttccc tcctttcctt tcccttcccty ttcctsttcc tccattcttc      180
cctccctccg tcttctcca ttcttccctc cctccctatt cctccattct tccctccctc      240
cctccctctc acatccttta ggactcagca tcacctctc taggcagtct ttcttgayt      300
accaccaytt atgcacaaaa cacctaagca ytaccttatg tggcctcatt tatcactgct      360
taaataatttt ttawacacgt gctgtgatgt ggacatgca ggtgtcattc ttgakgatcc      420
actgggtatt gccttgaggg gatgacaact gcccggtagg gtwacctggg gtgactgcac      480
ctaaaacagc aataccaaag ggcccattgc cagttctgtc actgaccagc tggggcntct      540
gagtatatcc cttaaccact ttggaccta atttggcatc tgtcaaatga gatggtggaa      600
cttgaggaac tctaaggccc ctactgtgca ggtcttatta atgattacaa cagcagcagc      660
agccagtgtt tactgaggac ttacaaagca ccaagcactt tgcctatcct aatccttaca      720
tcaactctac gaagttagta tggttactat ccctatttta cagatgagga gactaaggct      780
aagagagggt atatgacttg accacaaggt cataataaag aaacagattt gaatccaggc      840

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attctgactt	tactgttctt	agccacataa	tgggcacasn	ttygacacac	rgttttgtgt	900
actgttttgt	ggtcactcac	agactccatc	ccagactctg	catgaacccat	ccctgttcta	960
catttttaag	gctcaaaactg	gagtctgggt	gaaacctggg	gacagaagac	tgctatagt	1020
acaattatta	gagggaaatg	ggtgaggacc	agtggccagc	tctgttcatg	aacctttgac	1080
aattctcaca	gagagtcttg	ctttggacag	agacnactta	cgttgctgtt	ttcagttacc	1140
ctcttttagga	ggggagagta	ggcctgagtc	atgcttcaga	cacagattaa	aatcagattt	1200
ggtaccagggt	gcagtgggtc	agcctgtaa	tcccagcact	ttgggaggct	gagttaggag	1260
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tttaaaaaaa	aaaaaaaaaa	actcga				1346

<210> 161
 <211> 1079
 <212> DNA
 <213> Homo sapiens

<400> 161						
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cttccctttg	tgcttaggtc	tttttcttct	gtgagcttta	gataaacaac	ctagtgttta	180
aaatttttaa	taagggattc	ttttttaat	acatgagaat	tcattttcaa	attttggttt	240
tagttattta	ttttattcta	cttggtctct	tttcagacag	atgttctctc	ctggattgta	300
aaagtccaat	tcaaaggatt	tttatttgta	atatacttaa	cctttctctt	gtaagttgcc	360
atctgtgtag	atacagcttt	gattgcctga	caagaggaaa	atgtttccca	tctcttttc	420
ctgcctgaac	tatacggta	cttggtgtcc	agcatagtgg	ttcttaacct	tcatagtgtg	480
tcagaatcac	tttgacagagc	ttttaaaaaac	tctagatgcc	tggggaccac	cccaaagact	540
ccattttgtt	gtcatgggtc	aaagcacagt	cttctagttt	gcagctagtg	ttgagtacaa	600
ctagagttta	acccagtga	attttagttt	aatcttggct	ggtcttgaag	atgttagtaa	660
tctctattca	tttttttkga	aaagtaccaa	tgaratcaga	aagttaatta	gaaaacatct	720
agttgaatcc	cctgttttta	atagatgggg	aaaccaagac	ccagagaata	taatccaaag	780
ctacctgtca	cataggccac	aatttctttt	ccaatattct	gttcttgct	gttcttctaa	840
tttgcagaac	tcctctttta	aaaacctttg	gagaatgtat	tggcctcata	ccctcttcct	900
tcagcctgaa	agacatgcac	ctgtcactta	tttatgatat	ttaaagtcaa	cctctagaac	960
aggggtgtcc	aatcttcttg	cttccctggg	ccacattgga	agaagaaatg	tcctggggcca	1020
cacataaaat	acactaatga	tagccgatga	acttaaaaaa	aaaaaaaaaa	aaactcgtta	1079

<210> 162
 <211> 2103
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2101)..(2102)
 <223> n equals a,t,g, or c

<400> 162						
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aaagagtggg	gagcaaaggg	aggacagagc	cctttaaaac	gaggcggtg	gtgcctgccc	120
ctttaagggc	ggggcgtccg	gacgactgta	tctgagcccc	agactgcccc	gagtttctgt	180
cgcaggctgc	gaggaaaggc	ccctaggctg	ggtctgggtg	cttggcgggc	gcggcttcct	240
ccccgctcgt	cctccccggg	cccagaggca	cctcggcttc	agtcatgctg	agcagagtat	300
ggaagcacct	gactacgaat	gctatccgtg	cgagaacagc	tattccacga	gaggatccgc	360
gagtgtatta	tatcaacact	tctgtttgca	acactgtaca	tcctctgcc	catcttcctg	420
acccgcttca	agaagcctgc	tgagttcacc	acagggtg	ctgggcgggg	tctmtgagac	480
agtggtgatg	ttgatgctcc	tcactctgct	ggtgctagg	atgggtgtgg	tggcatcagc	540
cattgtggac	aagaacaagg	ccaacagaga	gtcactctat	gacttttggg	agtactatct	600
cccctacctc	tactcatgca	tctccttcct	tggggttctg	ctgctcctgg	ctgctggaag	660

acctggagga	gcagctgtac	tgctcagcct	ttgaggaggc	agccctgacc	cgcaggatct	720
gtaatcctac	ttcctgctgg	ctgccttttag	acatggagct	gctacacaga	caggtcctgg	780
ctctgcagac	acagagggtc	ctgctgggta	tgtggcttcg	tagggcttgg	gatacctggg	840
tttccccaag	gagagtagcc	cctgggtcca	gggtgcttgc	gacagcctcc	catccctgca	900
cagagaagag	gcggaaggct	tcagcctgkc	aacggaacct	gggctacccc	ctggctatgc	960
tgtgcttgct	gggtgctgacg	ggcctgtctg	tgctcattgt	ggccatccac	atcctggagc	1020
tgctcatcga	tgaggctgac	atgccccgag	gcatgcaggg	tacctcctta	ggccagggtct	1080
ccttctccaa	gctgggctcc	tttgggtgccg	tcattcagggt	tgtactcatc	ttttacctaa	1140
tggtgtcctc	agttgtgggc	ttctatagct	ctccactctt	cggagcctg	cggcccagat	1200
ggcacgacac	tgccatgacg	cagataattg	ggaactgtgt	ctgtctcctg	gtcctaagct	1260
cagcacttcc	tgtcttctct	cgaactctgg	ggctcactcg	ctttgacctg	ctgggtgact	1320
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tccggccctt	tgggctggac	agactgccgc	tgcccgtctc	cggtttcccc	caggctacta	1500
ggaagaccca	gcaccagtga	cctccagctg	gggtgtgaa	ggaaaaaact	ggacactgcc	1560
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gagaggggtg	gtggcagagg	ggagcagagc	catctgcact	attgcataat	ctgagccaga	1680
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ctgttctggg	ccatccccat	agccatgttt	acatgatttg	atgtgcaata	gggtggggta	1860
ggggcaggga	aaggactggg	ccagggcagg	ctcgggagat	agattgtctcc	ccttgccctc	1920
ggcccagcag	agcctaagca	ctgtgtctatc	ctggaggggc	tttggaaccac	ctgaaagacc	1980
aaggggatag	ggaggaggag	gcttcagcca	tcagcaataa	agttgatccc	agggtttgct	2040
ttgttttttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2100
nna						2103

<210> 163
 <211> 1370
 <212> DNA
 <213> Homo sapiens

<400> 163						
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ttatatgctc	ttggaagtat	atggggactc	catttctgtc	actgtggcgatt	ccacttat	120
gcattcacca	tgccaatcca	aggcagctga	tggcttagga	aagtcagaga	ctgagatgtt	180
aaaatccttg	gggctatcta	ccaacatgtc	tccattccac	ctgcttaggg	taaaggtttt	240
tctaacctgg	gccctgacct	tagcacagat	ctgcctatat	ttttttgaag	ttcagccact	300
tggactatta	gcctaaact	ttttctgtac	tgccactgca	gggctgaagg	agctttgcat	360
gcatccacca	agtctggctt	tcacacctga	atttcacacc	tcgctttcac	ccttagctat	420
tccatcttcc	tgtggaacat	cagtgtcact	tagcaatagc	catacaatcc	cattatcctt	480
atacctacct	ttcccttcaa	agtctcggat	gctgatatac	ttgacctgc	tagtgcatc	540
actcccatta	gtacactccc	aagtccttcc	agtgaagat	gtaacaattg	aatggccact	600
gtgccaaagg	tgccctgggt	ctacctgcca	ccagtgatgg	ggctctcaca	gccaaaccag	660
tggtgtatca	tccatttcca	aaaccatctc	amtgcctgtt	ttcttggacc	actcctggca	720
tcaactgttt	cagggttagag	tgactgaaaa	tttgggktat	aagatattta	ttagagatca	780
atatctatta	aaaatgtgaa	aggaagcagg	attktgtctga	ggaagaagat	aacaacaaag	840
ataccacaat	gtcagcccat	caaagccttt	ggccaaccca	gcasaaaaat	ctggagcagg	900
tgtayctttt	tcagagtctc	cccagttagg	tcaaaatgtg	cgcctttaca	cccgcacttc	960
cctcaatcac	gggcttcagg	ctgtcctggg	catgacctca	gatgaagcgg	ctcacacagc	1020
tgaggctaac	gttgtcggag	ctgacagctg	aaagccgttt	gctgaccaca	ctcccacagc	1080
cgagcagcat	gcccttgctt	ggaggaggat	ttggatgaca	cagctctatg	tctgccgtat	1140
tttgggggtc	acattcctca	caccagctc	tgccctcaaat	ggcaacattg	acaaaaattc	1200
attccagttg	caaaccaatt	gtagaatact	ataaaaaccag	agtacaagtc	taatagcata	1260
aatctcatcc	taagtggaaa	agaaagggtc	atttatttcac	acatttttgg	ggaaaaaaa	1320
acaacctttg	ctatgtcttt	attacaacac	ggactcac	aaaaaatagt		1370

<210> 164

<211> 1212
 <212> DNA
 <213> Homo sapiens

<400> 164
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 ggcgcgcggg gtctctcctg agtgcgagct acgggacctt cgccatgccg gggatgggtac 120
 tcttcggccg gcgctgggcc atcgccagcg acgacttggt ctcccagggt ttcttcgagc 180
 tggtcgtgcg agtgctgtgg tggattggca ttctgacgtt gtatctcatg cacagaggaa 240
 agctggactg tgctgggtgga gccttgctca gcagttactt gatcgtcctc atgattctcc 300
 tggcagttgt catatgtact gtgtcagcca tatgtgtgt cagcatgaga ggaacgattt 360
 gtaaccctgg accgcggaag tctatgtcta agctgcttta catccgcctg gcgctgtttt 420
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 ccacagtggg ttccattatc attgtctttg accctcttgg ggggaaaatg gctccatatt 600
 cctctgccgg cccagccac ctggatagtc atgattcaag ccagttactt aatggcctca 660
 agacagcagc tacaagcgtg tgggaaacca gaatcaagct cttgtgctgt tgcattggga 720
 aagacgacca tactcgggtt gcttytctga gtacggcaga gcttttctca acctactttt 780
 cagacacaga tctggtgcc agcgacattg cggcgggcct cgccctgctt catcagcaac 840
 aggacaatat caggaacaac caagacctgc ccagggtggc tgccatgccc caggagctc 900
 ccaggaagct gatctggatg cagaattaga aaactgccat cattacatgc agtttgcg 960
 agcggcctat ggggtgscct tctacatcta cagaaacccc ctcacggggc tgtgcaggay 1020
 tgggtggtgac tgaaattagc tggacatggt tgcacacacc tgtaatcaca gctactcggg 1080
 aggttgaggc gggagaatcg cttgaaccag ggagttggag gttgcagtga gtggagatca 1140
 caccattgcc ctgcagccta agcaacagag caagattctg tctcaaaaaa aaaaaaaaaa 1200
 aaaaaactcg ag 1212

<210> 165
 <211> 616
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (17)..(17)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (580)..(580)
 <223> n equals a,t,g, or c

<400> 165
 cmgctrctra gcaactnagt gggatcccc gggctgcagg aattcggcac gaggagaacg 60
 gctgcacgtg ggagatgctc cgtggatgtt tgtagaacgc tggcttccgt gtttcctcgt 120
 tgtggctgtg gtggtgtggg tctttgcctg tggaccctg gaagacaaaag aagacagttt 180
 tggatgggtca agctattttc ttgcttcagg gctccctccc ctgctttttg aagcctcaca 240
 aaccaggact gtgagggcag gaaggcttgg ggtctttgtg tgctgagcct cattagggtt 300
 ttaagaacct ccctcctttc atctctagct tacgagaggg atgattcat atcttcctc 360
 ctcaggctgc agtagaagca gacagtctct gcctccctgc ttgcctttcc tccctcccat 420
 tctactgttga ttattgccct caagaataac aggttgccca gctactcgag argcttaagt 480
 gggaggattg cttgacccca ggagttcgag gctgcagtga gctatgatcg cttcactgcg 540
 ctatagcctg gcagacacag agagacccta tctcaagcan acagacaaaac aaaaaaaaaa 600
 aaaaaaaaaa ctcgag 616

<210> 166
 <211> 524

<212> DNA
<213> Homo sapiens

<400> 166
gcacagaggg cttgggtgca ggtggtttat ttgggaagtc atcctggaa atccaaaagg 60
aagggatgga gaagagatag aagacaagaa agaatgcatt gtcctggtg catgggtata 120
gaaagtcttct aggaagcttc tgcagaaccc tatgcaatgt gcctcgaatt gtccaaggaa 180
ttgaatgggg agctgggtgca tttgtacact acttctgttg ctactgatg ggcaacaggg 240
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cccatgggct gtactcattc cagaatcctt cctcccctac acgctgacag tcaattattc 360
accaagtgtg aacttcgaat tctacttacc taaaatgcgt ttggcataca tctgcatgtc 420
acactcacac tgtccctatc ttggctcgaga cattataatc acttcctga actactgcag 480
cagcttccta gctgaactcc tggctcatct ggtctatatt gctg 524

<210> 167
<211> 1042
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (222)..(222)
<223> n equals a,t,g, or c

<400> 167
gaatcggcac gaggaatat tactgaatct tcttttatta tcaaatacaa atttagcata 60
tcctatgtaa aatgctgatt gcccttttct gcatattatt tcagatcttg ttttctatac 120
ccacaaggat tttctatata tttctcataa acaagagagt ccacataatt actacttacc 180
ttatgagtga acaaaaaaat cagcattggg ttgcgagaactncaaagttg caccgtgtgt 240
ggctcattag tggaaaaatg ctgctgggtg cagatataaa ggctctgac aggtggctgt 300
ggggccctaa tccagaatga gcacagttat ttgatcaat ggagtctaac ctagtccctc 360
cccaagggtc aaaatgtcct ctggtgcttg caattttctt acagtatttt tttctaattg 420
ataccaagct gggactctcc tggatatca tatttggaaa tgaaaagtga acaaatgag 480
aattttcctt ttgcgttggt gaatgcatac agtgatttaa gtttgggtgc atttctttca 540
gtctgttgat tgttctagga atcgatgctc acagatcaat gagtcatgtc caatttcata 600
aacaactgcc tggggtgagt gtggcctcat aaatgtgaac aaatagtaat ggagtggcaa 660
tcaaacctaa agtgttactg caaatcatgc catgctgaaa gaagaaacat ctcaaaaaga 720
gaataaacat ttttagggct ggggtgtggtg gttcatgcct ataatatcag cactttggga 780
ggccaaggca gaaggattgc ttgaggctag gagttggaga ccagcctgag taacatagtg 840
agaccccagt ccttacaaaa aaaaaaaaaa attaacaaag gattgtgggtg catgcctgta 900
gtcttagcta ctcgaggagg tgaggaggga agacaacttt aacccgggag ttcaaggtr 960
cagtgtatg attgcacat cgcgttcag ccttgggtgac agagcaagac tctgtctcaa 1020
aaaaaaaaaa aaaaaactcg aa 1042

<210> 168
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (536)..(536)
<223> n equals a,t,g, or c

<400> 168
ggacgagtgg ggagctggaa ggaggatgga gtgggaagat aatcttccct tggagtgcag 60
ctgtcccgtg accaaactcc tctctgtccc cagctggact cctctagatg ctgagatgct 120

ccttctcttc	tttccttctc	tgtcacacca	ttcttctgtt	ccttggctct	tctgtctatc	180
tccttgtgga	gscawaggtt	tgggggtttat	atgagtacag	gatagggtgac	atgggtggatc	240
aaaaggcaac	attttgtgtg	caaaaacagg	aatgcctgtt	cccattaggg	tcatggggttk	300
ccagggttga	gggtggggcc	tttgctaggg	aaccaccctc	ttctaccag	tattttcctg	360
tctcctgtct	gtatcaatag	gtacacaata	twtattaaat	taatkaatga	ctatacatta	420
tgaaatggga	aatgcaaggt	ataaaggaga	attgctgtcc	ttgaaaagaa	atttagttg	480
tttttttgtt	gagatggagt	cttgctctaa	gctagagtgc	agaatgtaat	caaggn	536

<210> 169
 <211> 796
 <212> DNA
 <213> Homo sapiens

<400> 169						
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ctgtatcccc	agcacctctc	tcactgctg	gcaaggga	gcactcagaa	gacgtgaat	120
gaccargtag	agtgatgggt	tgtacagcac	tggtactcct	tttccatctc	tgtgtcccat	180
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 <212> DNA
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 <212> DNA

<213> Homo sapiens

<400> 171

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<210> 172

<211> 2128

<212> DNA

<213> Homo sapiens

<400> 172

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 <211> 748
 <212> DNA
 <213> Homo sapiens

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 <211> 297
 <212> DNA
 <213> Homo sapiens

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<210> 175
 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 175						
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<210> 176
 <211> 1894
 <212> DNA
 <213> Homo sapiens

<400> 176						
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<210> 177
 <211> 1355

<212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<400> 177
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<210> 178
 <211> 1382
 <212> DNA
 <213> Homo sapiens

<400> 178
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<210> 179
 <211> 791
 <212> DNA
 <213> Homo sapiens

<400> 179						
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agcggagtga	cagcaacccc	agagtgagg	caccagagag	tgccactgca	tgagacacct	660
gtgaccattc	gaagtctgaa	atgcgggggg	ggagtttcat	ttttaagtga	agacccaaaag	720
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<210> 180
 <211> 2163
 <212> DNA
 <213> Homo sapiens

<400> 180						
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ggaaccgcag	cggcgccac	ggctactggg	acggcgccgg	ggccgcgggc	gctgaggggc	180
cggcgccggc	ggggacactg	agccccgcgc	ccctcttcag	ccccggcacc	tacgagcgcc	240
tggcgctgct	gctgggctcc	attgggctgc	tgggcgtcgg	caacaacctg	ctgggtgctcg	300
tcctctacta	caagttccag	cggctccgca	ctcccactca	cctcctcctg	gtcaaatca	360
gcctcagcga	cctgctgggt	tccctcttcg	gggtcacctt	taccttcgtg	tctgctctga	420
ggaacggctg	ggtgtgggac	accgtgggct	gcgtgtggga	cgggttttagc	ggcagcctct	480
tcgggattgt	ttccattgcc	accctaaccg	tgctggccta	tgaacgttac	attcgcgtgg	540
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agaaaatcct	cttgttgga	acaaaagacg	ttttatatgt	gcagtatgac	aaagaggagt	1860
ttcagagaca	actttgaatc	cttgtcagcc	tggagaccag	caccagagga	atctacaagg	1920
caaactccca	tatatattgct	tcccccaaat	tgtgtccctt	acagactcaa	agctcttttt	1980
ctttgttttg	ttgtttctct	aaaaattttac	tgtctttgt	cgatgctata	taagccagg	2040
agttctaaga	cgccagctct	ttgagatttg	ctcattcccc	tgtatttccc	acatatatat	2100
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ggg						263

<210> 181
 <211> 1979
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (968)..(968)
 <223> n equals a,t,g, or c

<400> 181						
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ggcggaatcg	ctgtgcgccc	tgagcccg	ctcagccctt	cgctttccag	ctgcgtcctg	240
ctcccgccg	scagggagc	ccagtggcga	tgagggcact	gctggcgctt	tgcttctcc	300
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tggacgctac	catctgctgc	ggctcctgcg	cgctccgcta	ctgttgcgcc	gcggccgacg	480
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ctgcgcagcc	tgtctacgtc	ccctttctca	tcgtcggtc	catcttcatt	gcgttcac	600
tcctgggctc	tgtagtggct	atttattgtt	gcacctgtt	gagaccaag	gagccctcgc	660
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aaaacgtttt	actggacatt	cagctatatt	gcttagaaaa	gggctacatg	tttctttttc	1260
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agtgaataaat	ctattttatga	tttcgggagt	aacctaacca	tgaataatat	tagcatwatg	1440
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tacaaggtty	caataatcac	atgaggagtt	taaagtttta	aataataact	cagacattca	1560
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mcatttgactg	tactaattat	ttagtagtca	tactgtaat	tttatgttaa	taataactgg	1800
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aattttatgt ttgatgacta tatatttggg catatatctt gttggattag aataaataaa 1920
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<210> 182
<211> 2087
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)..(1)
<223> n equals a,t,g, or c

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<400> 182
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ctccaattca gttcagggca ttccacagtt aaacagaa# gggaacgtgg ggctcttata 300
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gaagcaattg ggtagaatta gttgggggaa tatttatgag ttgctgtgtt tgttgattag 600
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cccctttaat cttgccattt aaattacagt agaaagacaa aatcaagtaa aataaagtgt 1260
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ggaccaagaa tctccgcatg gaggttgatt tgccactggg gactttggct aagactatta 1380
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tcttttattt cctttttttt ttatatattg tttcctttct actgctttta gatttgcagg 2040
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<210> 183
<211> 1811
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature

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<222> (21)..(22)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (37)..(37)
 <223> n equals a,t,g, or c

<400> 183
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 cctggagatg aacgccacaa agaccacagag taactgcagt tcagctcgag cctcgggctg 660
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 cgagtgtctg caccttgggc gtccccacct gcctggatct gaatggcagg aggcctgtga 780
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 actgaccagc tccttccacg ctctctcacc tgcccccaac tggggggcca tgacttggca 1740
 ttagcatgtt ccaaataaag tgatactggc aacaaaaaaaa aaaaaaaa aaaaactcga 1800
 gggggggccc g 1811

<210> 184
 <211> 1118
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (482)..(482)
 <223> n equals a,t,g, or c

<400> 184
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 aaatgttgta tgtattgtct tgtcttctta aacagaagac actgaacaga atggaatctt 120
 tggttgatct ctaaggacca ccattttgag gatctcttat aatgtatgat gacattttc 180
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 agttcctcct ttcttactgt ggctgtgtcc atctctaagg ggccattctt ccactctaca 300

gctcaaaaaa	gaaaatccag	gaaacagctt	cccaggcctg	ccttcctggt	ccccctcagt	360
tcccaaaaaca	cacaaaccag	gacaaaacac	cacttcagtt	ttctgcatct	tatagtctta	420
caaccttgag	tttgggagga	tcttgactca	agagtcagat	ggtgaaatat	ctagtacttg	480
anccccctgt	gtgataatgt	caagagaact	aaggtttggt	cccagaccca	acaataacta	540
ccaataggaa	tctgggtagc	atctttttaa	ttcttttagtc	ttcagtccttat	ctgtgtaaaac	600
atgggactgg	tctagataat	ttctccaact	ccaaaattca	atcatgttct	taatattaaa	660
aatcctcatg	tccatagatt	tttgtattct	ctccctggta	aatcctggta	atttcacagg	720
gatgtttgaa	actgaaaaat	cctgggaaaa	gtagatttta	gtcaagtcca	ctccaattta	780
aaaccatact	gaagtacat	tttcactcat	aattataaat	taaaaaatga	cactatcgag	840
ggttgataag	attatagaga	gatggctatt	ttcatgttgc	cagtgagaat	ataaaattcc	900
catttgggga	aaaaatttat	actatctatt	caaaagttat	atgcacttaa	tctatgactt	960
gacaattcca	tttctcatgt	tcattttgga	ggattactga	cacaatcct	atgcaagaat	1020
gtgattgata	gcattgtttt	cattttgagac	cagcctgggc	aacatagtga	gaacctgtct	1080
ctacaaaaaa	tttaaaaaaa	aaaaaaaagg	gcggccgc			1118

<210> 185
 <211> 830
 <212> DNA
 <213> Homo sapiens

<400> 185						
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ttcctgtaca	tattcacact	cctgccactt	ctaccctttc	tcttatccct	ctgcttttca	120
cctctgactg	taaaaagaag	tagcagttcc	gaaagcaaga	gttccctatg	aacacggaag	180
aagacattgg	caacttttga	gtacaacaac	tatatattaat	agagaattt	aagaacatca	240
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ggatgccatt	aaatagccta	gaattagggg	agtagtcgtt	gaatagaaag	gaggccacaa	360
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aggataatga	ggaacaaaa	agagaactca	gaagcaatat	ctgactgtta	tcattggaag	480
aatttttttg	cttgcttgag	gctggatatt	gaagtggatc	aggatacttg	agtgactatc	540
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<210> 186
 <211> 1939
 <212> DNA
 <213> Homo sapiens

<400> 186						
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aattttttcag	tttctgtgag	aattttataa	tttataatt	gcagacttaa	tgtataatct	180
attttgtcct	aacaattaca	aatatatttt	ttatttcaga	ttttatata	tcctaccaga	240
tggagataat	tacagcttta	aaaattttta	ttttttcatt	ttatttcaca	cattgacatt	300
aaatttttat	ggacacataa	taactgtaca	tatatatggg	gtagaatgtg	atgtttta	360
acatgtactc	aatgtgtaat	gatcaaatca	gggtaatttg	cataatgatt	tttctgtagg	420
gagaaaaattc	aaaatctact	cttctggcta	ttttcaaata	tataatatgt	tattgttaac	480
tatactcatc	ctactatgca	ataggacacc	agaacttatt	cctgggttct	acatccgta	540
aggcaaccaa	ggattggaaa	tattggaaaa	aaatttgcg	tctgtactga	acatgtacag	600
acttttttct	tgtccttatt	ccttacacaa	tatagtacaa	taactatttg	catgacattt	660
acatcggata	ttatgagtga	tctagagttg	atatgaagta	tatgggagga	tgtgcaaagg	720
tgatgtgcaa	atactatgtc	attttatatc	agggacttga	gtatcctttg	ttaycctcag	800
gagatcctga	aacyagtccc	ccatggatac	tgagggtcga	ctgtatagtc	ctatcctcac	840
ggaactttca	ttctaatrgr	ggaagactga	ctataaacaa	aatatatgta	ataggtggtg	900

gtaagtaccg	tggagaagta	acaaatgggg	caaagtgagt	tatacagctc	catycttaga	960
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<212> DNA

<213> Homo sapiens

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 <223> n equals a,t,g, or c

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<211> 1145

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<213> Homo sapiens

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 <223> n equals a,t,g, or c

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<212> DNA

<213> Homo sapiens

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<211> 1677

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<213> Homo sapiens

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<223> n equals a,t,g, or c

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<211> 2648

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 212

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<400> 214

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ttgcggtttc	cttatactcc	acccctttct	caacggctct	tttttaaagc	acatctcaga	1860
ttaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaggg	cggccgc		1907

<210> 218
 <211> 1334
 <212> DNA
 <213> Homo sapiens

<400> 218						
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tgtttaattat	attttaagca	acacacacac	acacacacgc	ctcatgtaat	ggacttttat	180
aacaaaagaa	aaaatttgga	tttctaattt	acaaatggca	aattatttat	ccctctctgg	240
atgcaccaa	gaccagtaaa	gtttatagct	tttccatcta	tatttataaa	gcaatactgt	300

attataaaaa	tcaatatattt	tatcacatgc	ttgaaatattt	tattttgttg	ttttaaaatg	360
tgcactctaa	acatatcaga	accttatattc	ttcctatgaa	cttaagctgc	ctgcgcacaa	420
aaaaaaaaaa	aattttacca	atggagatgc	agtagagtcc	#aggctcta	aaaactaaaa	480
gaaatgggat	gcagggggaa	caagttattt	gtcctgagtt	actgtacttg	cttgacatgg	540
ttgttgggta	ctaaatcaca	aaagaatcca	ttccaggtat	gcatgtctgg	gggttgggct	600
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aaaaaaaaact	cgag					1334

<210> 219
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 219						
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atcttggctc	ttaatgttca	tccttaagct	tgcttctctc	ttcagactac	tgattcagcc	360
tcttgcattt	tctttcaact	tgggccaaaa	aaacaggcaa	cattttcttc	ctccactacc	420
tcatcatcat	ccaatttatt	ccttttagttt	atattaccac	aactctccta	aacgtcccaa	480
gtctattatt	aagtctaaca	acttagcttc	gaacctcaat	ccaagcatct	gacaacacac	540
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aaaaaaaaaaa	aaaactcgta	g				861

<210> 220
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (587)..(587)
 <223> n equals a,t,g, or c

<400> 220

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tctagaccag	aggttgacga	tatttttgct	ctataaagag	acacatgggt	aattttttg	240
gctttgtgag	ttgtatagtt	ttccgttgta	gctgttcagc	tctgctacat	gaaagcaacc	300
atagaccata	ccttaacaag	tggtcacttt	tgagtaccaa	taaaacttta	tttagaaata	360
acagagggt	ggatttggtc	ctagtttgct	gaaccctttt	ctagatgaag	gctcctcttg	420
ccaagactgg	ctccctaact	tggtcgacaa	attctcactt	tggtacttag	tcattgtttg	480
tgctctctgt	tattttgcat	gtcttttctc	atgttttaggt	gctgtgtctt	aatacttttt	540
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<210> 221

<211> 477

<212> DNA

<213> Homo sapiens

<400> 221

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ctagtacttc	aacatggaga	caattatctt	ttgtttttgt	ttgtttttgt	ttgtttttgt	180
ttggccatgc	ctttttgagt	ttaccttttt	atattttgtc	catcattgcc	atgtgttttg	240
agcagtgggc	gttcataaac	atgaactcac	tgtaccatca	cgaatgggaa	gtaaggggaa	300
accttatcca	tgtggatttt	actcttccct	gattccctaa	attgggtttg	caaaatacta	360
ctgtgcactt	tcttgatgat	tcgggcttat	ctttatgact	gtctgtktt	gtgtcagact	420
gtaaagaagt	ataaaagtct	ttagcttgaa	aaaaaaaaaa	aaaaaaaaaa	aactcga	477

<210> 222

<211> 1930

<212> DNA

<213> Homo sapiens

<400> 222

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tcagggatga	tgtctaatat	tactcaatca	cattcaagta	aaatatcagc	ctttgggtatc	180
ttcattggac	cagaacagtt	tcttttagatc	ttcttatttc	tctttcaagc	ttcaacctta	240
aataataggc	cattgtgtag	cagaaaaaac	tttaaactta	gaagtagaa	tctataatca	300
aatcctcagc	caacttaaaa	acagtttgtt	gaccttggat	aagtcacata	gccggactgc	360
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ctcattccat	caccctgtct	cactctttct	agtgacccag	ggtcacttac	ctgtttttct	540
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cagccccaga	tagcaatata	gaacccacc	cccgtaatc	agtcaataaa	tagatgtccc	1440
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gcacccttat aactgtggga ccattaggag atttaaagt cttcttcact ttgccacgg 1680
tagggagtga ggctgcactg agaaacatca ctggcatgag gtctaattgc ctgccctatg 1740
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tttataaaat agagcaaagg gagcccagtg ctttgagaat gccaatgcaa aattataata 1860
attacttatt acatgataca gttgttaaag tattttctgt gttgttcaaa aaaaaaaaaa 1920
aaaaactcga 1930

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<210> 223
<211> 1021
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (248)..(248)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1004)..(1004)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1014)..(1014)
<223> n equals a,t,g, or c

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<400> 223
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acgggttcgtt ttggttctat gtactctcta aaatgttatc gtttttcatt tgtctactaa 180
ttttcgtgca tttgttacta ctgagtttct taatatctga ctggcctccg cccacgggct 240
ctgcaganca taaaatactc aggcctgatgg tagtgacagag actctccctc cttgatcagc 300
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gttggccggg gacacagaag cagcaagarg caccgctaga akargtggg caggcagarg 660
aaccgcagag actcaggctc crgcagcttc cctggagcag tctctccat ccytgggaca 720
gacagcagga caccgaggtc tgtgacagcg ggtgccttt ggaacgccgc catcctcctg 780
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agccttagat agcagcagaa ggcttttttg attctcctcc ttgaaaagat tctcagttac 960
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a 1021

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<210> 224
<211> 727
<212> DNA
<213> Homo sapiens

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<400> 224
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agggtgttgac cagcaatttc ctgcggcatt tacttcttga taacaagagt gagaagatag 120

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agacagggca	gatagacact	taagagtaaa	atgtattaac	acaaaggctc	tggccgcccc	180
cctacaaagg	aggccatgga	accgatggaa	ctgatggagg	aaatgctggg	actgtgggtc	240
agtgtgaca	cacccatggc	catacgtttg	gtcttcttgg	ccttggtctg	gctggtggat	300
gggaagccag	tatggatcac	cttgtggatg	gatgcaaaga	gaccaaactt	ggcgggcact	360
ggaagtacct	ggggaagcag	gagagactca	cactgctgtc	atggccccac	agcctggagc	420
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gcagcaagat	tccatatgag	caaagttcag	aaagtgrgmm	aaaaggacca	agttggatct	660
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gaaagta						727

<210> 225
 <211> 1256
 <212> DNA
 <213> Homo sapiens

<400> 225						
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tttccctaatt	aaatcccaat	gtgatagtgc	ttatcccaca	ggcccacttt	agttcagttt	420
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agagtcttgc	tctttcaccc	aggctggagt	gcagtggcgt	aatctcagct	cactgtaac	660
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<210> 226
 <211> 3466
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (3462)..(3462)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (3466)..(3466)
 <223> n equals a,t,g, or c

<400> 226						
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<210> 227
 <211> 1238
 <212> DNA
 <213> Homo sapiens

<400> 227
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 ggccagtcgc ctccaggcca agagggatcc ttcaccctgt tctggaccgg tgcctctctt 240
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<210> 228
 <211> 1481
 <212> DNA
 <213> Homo sapiens

<400> 228
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 ccttgccctg gagctcttgg gaagggtgtg gggttccag ccggccctcc gggccgggg 180
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<210> 229
 <211> 1341
 <212> DNA
 <213> Homo sapiens

<400> 229						
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gcttctgtta	tgaagctggg	acccttagag	cctcaggatg	atcctctgtt	tgtttgtgaa	180
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atggagcttc	tggagaagat	gctggccctc	accttggtcaa	aggcagattc	tcccaggact	360
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attgggtgc	agaacctcct	ggtgcagaag	gacctctat	tgtcccaggc	ctgtgttggc	720
tgccctggag	ccttgcttga	ctacctggat	gcccggagcc	cagacattgc	tctccacgtg	780
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gaatgagacc	tggagacaaa	gggcataatt	gttggggaaa	tggtgacag	ctgaagctat	1260
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<210> 230
 <211> 912
 <212> DNA
 <213> Homo sapiens

<400> 230						
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cgccacggac	ctytytgggg	agtggccgga	aagctcccs	gcctytggcc	tgccagggcag	780
cccaagtcac	gactcagacc	aggctccaca	ctgagctgcc	cacactcgag	agccagatat	840
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cttgttctcg	ag					912

<210> 231
 <211> 839
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<400> 231
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 tgggtgaccc cagggccacc cacagaactt tctcaaagta ttcactcctt gtccctagag 180
 gataataatt ttctcaaacc ctggtacctt gatcgtgacc atttggaaga agaaacagcc 240
 aaatttctca ctcaagtaca ccaagccatt aaaacgttac gagatgataa aacagtactt 300
 ctggaagaga tctacacgca caagaatctc tttactgaga ggctgaataa gatatctgat 360
 gggctgaagg agaagggagc cccacccctc tccatgaatg ccttcccggc tccatctcct 420
 acttgacccc cagaacccct tggctctgtc tgccctccca gcacctagt ttctctacct 480
 tctcacccctc cctggcagcc tgcaatgagt cctgtgccag gaaccggcgg acctccctgt 540
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 agaggccgca gctaccaccg tcacaaagtt cactcatctc tgggtcccgg tgaccccatc 720
 ccccatacc ctccatcctg ggtcctgggg ccccaaagct ctgaggccta ggagactgag 780
 ctgtctcgtg gtttgccctac tcctacacct ttgtaaagag tctcttcatt aaaacccct 839

<210> 232
 <211> 1022
 <212> DNA
 <213> Homo sapiens

<400> 232
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 ggcgaggagg agccgccacc gcctcctcct gctgctgctg cgctacctgg tggctgcctc 120
 gggctatcat aaggcctatg ggttttctgc cccaaaagac caacaagtag tcacagcagt 180
 agwgtaccaa gaggctatgt tagcctgcaa aaccccaaag aagactgttt sctccagatt 240
 agagtggaa aaactgggtc ggagtgtctc ctttgtctac tatcaacaga ctcttcaagg 300
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 aagtgatgag gggaaatata gttgtgaagt tagtgcccat tctgagcaag gccaaaacct 420
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 accctcttct gctctgagtg gaactgtggt agagctacga tgtcaagaca aagaaggga 540
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 tggctcccaa agcaccaaca gctcatacac aatgaatata aaaactggaa ctctgcaatt 660
 taatactgtt tccaaactgg acaactggaga atattcctgt gaagcccga attctgttgg 720
 atatcgaggg tgtcctggga aacgaatgca agtagatgat ctcaacataa gtggcatcat 780
 agcagccgta gtagttgtgg ccttagtgat ttcgtttgtg ggccttggtg tatgctatgc 840
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 agccacgaca atgagtgaat atgatttcaa gcacacaaaa tcctttataa tttaaagact 960
 ccactttaga gatacaccaa agccaccgtt gttacacaag ttattaaact attataaaac 1022
 tc

<210> 233
 <211> 1028
 <212> DNA
 <213> Homo sapiens

<400> 233

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gtggaccact	catctgcagg	cctctcctgc	atggggaggg	taggcaggga	gcagcatgtc		360
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atacataatt	tggccaaaaa	tggaaattg	gaaagaatga	aatgtttagt	ttatagtaga		960
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gcacgtag							1028

<210> 234
 <211> 450
 <212> DNA
 <213> Homo sapiens

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aaacttcctt	ctgctctttc	tggaggatct	cttttcaatt	atctattcat	catatatattc	180
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cagcacatct	ctcttcagac	ctggtgaccc	cagccactgg	gaacctggga	ggaccagct	420
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<210> 235
 <211> 1094
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

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cactgggctg	cttgagtcct	gagtcacaat	tcagaattcc	tgggctccct	gggtgcattc	120
tatcattcca	gttgaaaagt	tgcttccttc	cagtcatgtg	gctcttcatt	ctactctcct	180
tggctctcat	ttcagatgcc	atggtcatgg	atgaaaaggt	caagagaagc	ttgtgctgg	240
acacggcttc	tgccatctgc	aactacaatg	cccactacaa	gaatcacccc	aaatactggg	300
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tattttgtta	gccca					1094

<210> 236
 <211> 808
 <212> DNA
 <213> Homo sapiens

<400> 236						
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<210> 237
 <211> 1898
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1398)..(1398)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1428)..(1428)
 <223> n equals a,t,g, or c

<400> 237						
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tcccagttgc	agaaagcaga	aatctgtata	tatttgcgga	tgaattacat	ctgggaatgg	180
gctgccctgc	aaatcggata	catacatatg	tatatgagtt	tatatatctt	gttcgtgatt	240
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<212> DNA
<213> Homo sapiens

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<211> 975

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1505

<212> DNA

<213> Homo sapiens

<400> 249

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 <211> 868
 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<211> 3308

<212> DNA

<213> Homo sapiens

<400> 252

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 <212> DNA
 <213> Homo sapiens

<400> 257						
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 <212> DNA
 <213> Homo sapiens

<400> 258

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<210> 259

<211> 1752

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (356)..(356)

<223> n equals a,t,g, or c

<400> 259

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<210> 260

<211> 1669

<212> DNA

<213> Homo sapiens

<400> 260

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<210> 261

<211> 795

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(1)

<223> n equals a,t,g, or c

<400> 261

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<210> 262
 <211> 2709
 <212> DNA
 <213> Homo sapiens

<400> 262
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 <211> 1380
 <212> DNA

<213> Homo sapiens

<400> 263

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<210> 264

<211> 813

<212> DNA

<213> Homo sapiens

<400> 264

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<210> 265

<211> 2288

<212> DNA

<213> Homo sapiens

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<211> 1076

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<213> Homo sapiens

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<210> 271
 <211> 941
 <212> DNA
 <213> Homo sapiens

<400> 271						
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<210> 272
 <211> 988

<212> DNA
 <213> Homo sapiens

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 aaaaaaaaaa aaaaaaaaaa aactcgag 988

<210> 273
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<400> 273
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<210> 274

<211> 1067
 <212> DNA
 <213> Homo sapiens

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<210> 275
 <211> 2078
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1177)..(1177)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2057)..(2057)
 <223> n equals a,t,g, or c

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<210> 276

<211> 2494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (920)..(920)

<223> n equals a,t,g, or c

<400> 276

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 <211> 845
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (4)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (823)..(823)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

<400> 277						
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<210> 278
<211> 738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3)..(3)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (566)..(566)
<223> n equals a,t,g, or c

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<221> misc_feature
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<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (684)..(684)
<223> n equals a,t,g, or c

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<221> misc_feature
<222> (703)..(703)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
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<222> (717)..(717)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (731)..(731)
<223> n equals a,t,g, or c

<400> 278

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 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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aacaattcca	tgtagcaatc	ttttttctgt	tcacgggtgt	tgtgatagaa	ccttaaattc	540
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 <211> 1746
 <212> DNA
 <213> Homo sapiens

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<210> 281
 <211> 4909
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <222> (2493)..(2493)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2512)..(2512)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2523)..(2523)
 <223> n equals a,t,g, or c

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tcattcccagt	tcattatgat ctcttgatcc atgcaaacct taccacgctg accttctggg 300
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accacctgca	gatatctagg gccaccctca ggaaggagc tggagagagg ctatcggaag 420
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<210> 282
 <211> 1579
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1556)..(1556)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1569)..(1569)
 <223> n equals a,t,g, or c

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<210> 283
 <211> 587
 <212> DNA
 <213> Homo sapiens

<400> 283
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cgagaccaga tataaaacta gctgccaaac caaaaaaaaa aaaaaaa 587

<210> 284
<211> 2921
<212> DNA
<213> Homo sapiens

<400> 284
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<210> 285
 <211> 1259
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (4)..(4)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n equals a,t,g, or c

<400> 285						
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<210> 286
 <211> 1314
 <212> DNA
 <213> Homo sapiens

<400> 286						
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<210> 287

<211> 2042

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (2001)..(2001)

<223> n equals a,t,g, or c

<400> 287

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<210> 288
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 288						
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<210> 289
 <211> 1568
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1550)..(1550)
 <223> n equals a,t,g, or c

<220>
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 <222> (1564)..(1564)
 <223> n equals a,t,g, or c

<400> 289						
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<221> misc_feature
<222> (13)..(13)
<223> n equals a,t,g, or c
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<400>	290								
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<220>  
<221> misc_feature  
<222> (1568)..(1568)  
<223> n equals a,t,g, or c
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<220>
<221> misc_feature
<222> (1654)..(1654)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (1660)..(1661)
<223> n equals a,t,g, or c

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<400> 291
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ananaaaan naaaaaaaaa aaaaaaaaaa      1680
aaaaaaaaa                                     1687

```

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<210> 292
<211> 570
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (5)..(5)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (16)..(16)
<223> n equals a,t,g, or c

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<220>
 <221> misc_feature
 <222> (496)..(496)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (523)..(523)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (531)..(531)
 <223> n equals a,t,g, or c

<400> 292
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 cacgcgtccg ggcagtgggg tgagggcaca caagcagttc aggggtcccag caggaagtgg 120
 ggctgcaggg ccgggggtggg tcctgggcct ggccatcagg cagcctagca ggttggttctg 180
 ggcatggagg gggcctgggtg tggctgaggg catgcccagg gctccctgga ggatcccgt 240
 ctgtgccctg cccaccctgt gcctggggag ccctctgccc tcacagccca cccaccccat 300
 ttwctatgac cacagagctc cgacctgga gatggctcac ccaggaggtc ccaggagctc 360
 tcaactcccc aggacctgga rgacaccag ctctcagaca aargctgcct tgccggcggg 420
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 agagtggctc cctgtccttg gcacccctg 570

<210> 293
 <211> 1752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1099)..(1099)
 <223> n equals a,t,g, or c

<400> 293
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 ggggcctcag gacgtacac actgctctcc gggcctctcc tgccgcctct gggacagtga 360
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aagcgctggg	ccctcgtgtg	gctggcctgc	ctactcttgg	cctgcgcttt	ccctcatcct	1680	
ccttctcaaa	aaggatcacg	cgaaagggtg	gctgaggctc	ttgaaacagg	acgtccgctc	1740	
gggggcggcc	gc					1752	

<210> 294

<211> 536

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (508)..(508)

<223> n equals a,t,g, or c

<400> 294

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acattcttta	gaaaccaaga	ggaaagaaa	aacaaatata	aaaaaagaca	tagaatttaa	120
tattgataca	atttcacctc	taaaatgat	ttgaagaaat	gcaactttat	atcaaaaaat	180
gtcatctgat	ttcctttgtt	tcttttttaa	attatgtaat	cagatgattt	tatgtttttt	240
tttcagggga	gcggaatatt	ggtttctttt	acttggtgtt	ttcagttttc	tctgccattc	300
atgtttcttt	tttgtgttca	gtgtttcaaa	tacaatttgt	atttaaggat	tttaaaatac	360
caaactgtaa	ctgagtacag	tggatcgttt	tctgttagga	tgtaaatatt	atacaatgaa	420
atctataaag	tggtgtcaat	ttgattattg	acacatataa	catgtttaca	aataaaactgt	480
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<210> 295

<211> 427

<212> DNA

<213> Homo sapiens

<400> 295

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gacgctatga	gagggcgctc	cagggcccag	cctcccacag	ccgtttcagc	agggacaggg	240
gctgaacagg	ccctattcca	gcccccttgc	ttcactctac	cggacagacg	gcagcagtc	300
cagctctggg	ttccttctcg	gtttattctg	ttagaatgaa	atgggtccca	taaataaggg	360
gcatgagccc	ttcctcaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	420
aaaaaaa						427

<210> 296

<211> 2409

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (694)..(694)

<223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (716)..(716)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (755)..(755)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (761)..(761)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (791)..(791)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (808)..(808)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (880)..(880)
 <223> n equals a,t,g, or c

<400> 296
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 caggagcact ggggtgcatga ggccctgtgcc gtgnggaccg gcggcgtcta cctgngggcc 720
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aaaaaaaaaa						2409

<210> 297
 <211> 737
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)..(1)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (21)..(21)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (369)..(369)
 <223> n equals a,t,g, or c

<400> 297		
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tcctgtacat	atgactgtaa aatggtaaac gtgtgtata tatctggcct cgttatatag 180	
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gctgtgagat	gaccaggggc cgggatgggg gaggtgagac gtgccagact tcttgcaagg 660	
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ccaccaggga	acctaata	737

<210> 298
 <211> 1471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (798)..(798)
 <223> n equals a,t,g, or c

<400> 298
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 atttacagtc ttcataatata ttatatatat gtatatgtat acatatatat acactatata 180
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 agggcgggccc tgggctgggg gctgctgcag gcctatcgaa gcgtggacag agctgagga 300
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 gctcccgtgc agagtaggag cggcgggtccc tgggtggtgca caacgggtgc gcgtccggccg 600
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 gtggggtgga ggactggaaa ggggacaaac agaggccaaa ggggtgtcca gtccgccc 720
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<210> 299
 <211> 2227
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (289)..(289)
 <223> n equals a,t,g, or c

<400> 299
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 cgtaggctca gatcttcatt tgaggttatg ttctataagt taacgttgat cttgtgtgag 180
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catgtgcctt	acttttttaa	aaaggagttt	attgtattca	ttggaatatg	tgacgtaagc	2160
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aaaaaaa						2227

<210> 300

<211> 2214

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (289)..(289)

<223> n equals a,t,g, or c

<400> 300

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cgtaggctca	gatcttcatt	tgaggttatg	ttctataagt	taacgttgat	cttgtgtgag	180
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ggtcttgata	tgcgaggacg	ctgtgtcttc	cctgccacat	tttcttcttc	tttcttgaga	900
cagacccttg	ctccatcacc	caggccagag	tgtggtsgtg	cgaacacggc	tcactgcagc	960
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gcgagagtca	ccatgctggc	ctgaatcttc	aggtattttr	cggttgargt	gycacttact	1080
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gaccctcggc	tgtgagaggg	aggggtgggc	tgggctggag	gaacctraag	ccctcgtgat	1200
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attctgcttg	caaaaaaatc	tatcatgtgc	ttttctagat	gtctctgggt	ctatagtgca	2040
aatgctttta	ttagccaata	ggaattttta	aataacatgg	aacttacaca	aaægctttt	2100
catgtgcctt	acttttttaa	aaaggagttt	attgtattca	ttggaatatg	tgacgtaagc	2160
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<210> 301
 <211> 1145
 <212> DNA
 <213> Homo sapiens

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atgtgaagat	ccttctcgta tttcatttgg aaagatgagc aagagggtctg cttccttcat 540
tttacttccc	cttctgtttt tgaaaggcag tttcgccaag cttaatgcaa gaatatctga 600
ctgttttagaa	gaaagatatt gccacaatct ctggatgggt ttccagggt gtgttattac 660
tgagcttcat	ctttccagaa tgagcaaaac actgtccagt ctttgttacg attttgtaat 720
aatgtgttac	atttttttta aatttttggga catcacatga ataaaggat gtatgtacga 780
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aggggacttt	gtcgccctgt gcactaaaag ggccagattt tcagcagcca aggacatcca 960
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aaaaa	1145

<210> 302
 <211> 1165
 <212> DNA
 <213> Homo sapiens

<400> 302	
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gctgtgggag	ctggaatggc gcagctggaa ggttactatt tctcgccgc cttgagctgt 180
accttttttag	tatcctgect cctcttctcc gccttcagccgggcttgcg agagccctac 240
atggacgaga	tcttccacct gcctcaggcg cagcgctact gtgagggcca tttctccctt 300
tcccagtggg	atcccatgat tactacatta cctggcttgt acctgggtgc aattggagtg 360
atcaaacctg	ccatttggat ctttgatgg tctgaacatg ttgtctgctc cattgggatg 420

ctcagatttg	ttaatcttct	cttcagtggt	ggcaacttct	atttactata	tttgcttttc	480
tgcaaggtag	aaccacagaaa	caaggctgcc	tcaagtatcc	agagagtctt	gtcaacatta	540
acactagcag	tatttccaac	actttatatt	tttaacttcc	tttattatac	agaagcagga	600
tctatgtttt	ttactctttt	tgcgtatttg	atgtgctttt	atggaaatca	taaaacttca	660
gccttccttg	gattttgtgg	cttcatgttt	cggcaaacaa	atatcatctg	ggctgtcttc	720
tgtgcaggaa	atgtcattgc	acaaaagtta	acggaggctt	ggaaaactga	gctacaaaag	780
aaggaagaca	gacttccacc	tattaaagga	ccatttgcag	aattcagaaa	aattcttcag	840
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tcatctactc	tctttttttc	ctttcctcat	ctcctgtctc	aacaaataaa	taaataaaca	1080
taaatgcatg	cattcataca	tacaattgat	aaatctaate	ttggccaaaa	aaaacccaaa	1140
acaaaataaa	aaaaaaaaaa	aaaaa				1165

<210> 303
 <211> 1160
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (345)..(345)
 <223> n equals a,t,g, or c

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ccagctcggg	tttccrggct	cagaattttc	caggagtrgg	ttcttgggca	gtggctgtgg	120
gagcwggaat	ggcgcagctr	garggttact	rtttctcggc	cgccttgagc	tgtacctttt	180
tagtrtccctg	cctcctcttc	tccgccttca	gccgggcgyt	gcgagagccc	tacatggacg	240
agatcttcca	cctgcctcag	gcgcagcgct	actgtgaggg	ccatttctcc	ctttcccagt	300
gggatcccat	gattactaca	ttacctggct	tgtacctggg	gtcanttgga	gtgrtccac	360
ctgccatttg	gatcttttga	tggctctgaac	atgttgtctg	ctccattggg	atgctcagat	420
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acaacccaga	aacaaggctg	cctcaagtat	ccagagagtc	ttgtcaacat	taacactagc	540
agtatttcca	acactttatt	tttttaacty	cctttattat	acagaagcag	gatctatgtt	600
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ggcttattcc	atgtccttta	aaaacttgag	tatgcttttg	cttctgactt	ggccctacat	900
ccttctggga	tttctgtttt	gtgcttttgt	agtagttaat	ggtggaattg	ttattggcga	960
tcggagtagt	catgaagcct	gtcttcattt	tcctcaacta	ttctactttt	tttcatttac	1020
tctctttttt	tcctttcctc	atctcctgtc	tcaacaaata	aataaaataa	cataaatgca	1080
tgcattcata	catacaattg	ataaatctaa	tcttggccaa	aaaaaaccca	aaacaaaata	1140
aaaaaaaaaa	aaaaaaactc					1160

<210> 304
 <211> 802
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (337)..(337)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (359)..(359)
 <223> n equals a,t,g, or c

<400> 304
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 cccatcatgc acagatcaga gccatttctg aaaatgtcgc tgctgattct gcttttcctg 120
 ggattggcag aagcctgtac tcctcgtgaa gtcaacttgc tgaaagggat cataggtctc 180
 atgagcagac tgtcaccgga tgagatccta ggcttgctgagcctccaagt actgcatgaa 240
 gaaacaagtg gctgcaagga ggaagttaaa ccttctcag gcaccacccc atccaggaaa 300
 ccaactccca agaggggaaga acacgtggaa yttcctngaa atgcsctac atgggtgrtng 360
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 ctgccaytac tgtaacttgg aactggacat cagggatgat ccctgctgtt ctttctagt 480
 agcctgctcc atctcagctt agccttcaca aggcctccat cccccaggca ttctaacctc 540
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 aggaatggca cctgggtgcc cagaggcatg gccagaggt gtctgtgggg gccatgcctt 660
 agggggatgc acccagggcg gctgagagag caactgcagg agtttccct aaaatctctc 720
 ctccagatcg ttctcgaact ttcccacta cttccataat aaaatgtata cttgttgaaa 780
 aaaaaaaaaa aaaaaactcg ag 802

<210> 305
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 305
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 ctctcctttt ttacattgta tggactttgt atgtgaagc ttcattcagc ctctcctg 120
 ttcacattgt tattgttaat atcattatct ttgtgtcgt tttattgtca gtctacaaat 180
 tagatattat tattgttttt gttttatata ggcaacattt atctggattt gcatagatgt 240
 ttaccatttt ctttactcag tgttttatca aatacatcct ttaggaattc ctttaatttg 300
 gtctcttggt ggcrtatggt cagttttcat ttgtctatta aatgtttatc acttttttcg 360
 tgataggttg ttctgctggg ttcacaattt taggttgcca gttctgtttt tttgtttggt 420
 tgtttgtttg acacttggaa gatattatct tagtgtcttc aatattctgt ctttgggtctt 480
 tggtcattct aattaccttt tctttgtata tgatctgtcc cttctccatg gcttctttta 540
 aaatcttctc tttatcttt 559

<210> 306
 <211> 678
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (171)..(172)
 <223> n equals a,t,g, or c

<400> 306
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 atgctacctt ctctctttta ttctcactt taaaataaaa ttgcaaaaag nnaaaaatta 180
 aatatagtat gagtccagtt actggcctaa ggagctaaaa gcattctggg tttgtatgaa 240

gacagctgag	ttataacaaa	tgagagtact	gttgtgtgac	tgcattaatt	attccctttt	300
taaatgtaca	agagcaaggc	attctacctg	actgtgttat	tgagctctgc	agcatacatg	360
tgacagagct	aaaacaaaca	agcaaacaaa	agaaaccaca	gctttaggat	actctgttca	420
tgaatatagc	ctgaaaatga	taatcaagaa	gtaaactttt	accagtatta	aggaacatta	480
agctgcctat	ctctcagtga	atttcagaat	gatattttta	aagttagttt	aggctgggca	540
ctgtagctca	tgcctataat	cccagcactt	tgagaggcag	aggccaaggc	aggaggatca	600
cttgagcccc	ggatttttgag	accagcctgg	gcaacatagc	aagacactgt	ctctaaaaaa	660
aaaaaaaaaa	gggcggcc					678

<210> 307
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (11)..(11)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (15)..(15)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (941)..(941)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1016)..(1016)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1022)..(1022)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1028)..(1028)
 <223> n equals a,t,g, or c

<400> 307	
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gctttcttct	atcttctgtg gatattatgg caataacac arcaagttta gggagtccat 120
ggccagaaaa	cttttgggag gaccttatca tgtccttcac tgtatccatg gcaatcgggc 180
tggctacttg	aggatttatt tgggctgtgt tcatttgtct gtctcgaaga agaagagcca 240
gtgctcccat	ctcacagtgg agttcaagca ggagatctag gtcttcttac acccacggcc 300
tcaacagaac	tggattttac cgccacagtg gctgtgaacg tcgaagcaac ctgagcctgg 360
ccagtctcac	cttccagcga caagcttccc tggacaagc aaattccttt ccaagaaaat 420
caagtttcag	agcttctact ttccatccct ttctgcaatg tccaccactt cctgtggaaa 480
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acagctctgag	ccgtcctgac tactggtcca gtaacagtct tcgagtgggc ctttcaacac 600
cgccccacc	tgccatagag tccatcatca aggcattccc agattcctga gtagggtggc 660
tttttggttt	tgtttctttc ttgtcttgtc ttttattgaa aggaaatcaa aaataggta 720

aacagaat	ttt	tgagg	gc	atg	g	cccaa	ataa	ctcat	gag	tt	cca	agtt	gaa	acat	ggt	gt	780	
gcaag	ttg	ga	catt	aca	atg	taaa	acac	at	ttt	ctt	caa	cac	gtt	ttc	ctt	ttg	ttc	840
aaaaa	atg	ta	at	ttt	ccc	cca	agc	gtt	t	at	ttt	atg	t	at	ttt	gt	at	900
gctt	at	taaa	a	at	ag	t	g	at	t	g	at	t	g	at	t	g	at	960
aatt	aaa	att	aaa	act	tc	ag	aw	att	t	g	kg	g	at	t	ca	at	c	1020
c	nt	t	aa	a	ang	g	g	g	g	a	a	a	a	a	a	a	a	1042

<210> 308
 <211> 1556
 <212> DNA
 <213> Homo sapiens

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aatcc	acaaa	acatt	t	caa	a	aaat	acatt	aaa	ag	t	ctc	cag	ttt	120
ttcac	atttc	atac	act	cac	a	at	att	t	tagg	aa	at	ag	t	180
gataa	gggtg	cagca	aca	aat	t	ctg	cc	agat	ggt	t	aa	at	g	240
ctctt	cctaa	ttt	ggg	ag	ct	ata	a	agc	agt	ttt	t	act	ccc	300
acc	tact	ct	ttg	ct	gatt	tt	cat	gt	t	ag	ac	att	a	360
aaaaa	aaaaa	aaa	ag	tag	cc	ct	g	at	ac	ca	gt	t	aa	420
gctaa	aty	tc	ttt	gt	t	gaa	ac	ca	act	t	at	a	aa	480
cct	ttt	ctt	cc	att	tt	ctt	ctt	g	ct	cc	ct	tt	c	540
taatt	ag	ag	a	ac	att	tt	ct	a	ta	ag	ca	tt	at	600
ta	at	ta	a	agg	g	aa	t	g	aa	g	aa	a	a	660
cat	gt	t	c	ag	a	c	act	t	g	t	g	a	c	720
tc	act	g	aa	a	a	a	a	a	a	a	a	a	a	780
a	at	act	g	g	aa	a	at	g	r	a	c	c	a	840
t	g	a	a	a	a	a	a	a	a	a	a	a	a	900
g	c	att	t	c	t	c	c	c	a	g	c	c	c	960
caa	ag	acc	at	ct	g	g	c	c	a	t	g	c	a	1020
at	t	c	g	t	a	g	a	a	a	a	a	a	a	1080
a	att	c	t	t	c	a	t	c	a	a	a	a	a	1140
tt	g	t	c	t	g	c	a	a	g	t	t	a	c	1200
ta	ag	t	t	t	a	a	a	a	a	a	a	a	a	1260
g	c	t	t	g	t	t	t	t	t	t	t	t	t	1320
ca	a	c	g	g	t	g	a	a	a	a	a	a	a	1380
g	t	a	g	a	a	a	a	a	a	a	a	a	a	1440
aa	a	t	g	a	a	a	a	a	a	a	a	a	a	1500
tt	a	a	a	a	a	a	a	a	a	a	a	a	a	1556

<210> 309
 <211> 615
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (18)..(18)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature

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<222> (584)..(584)
<223> n equals a,t,g, or c

<400> 309
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aaagactcgg ccttcaagga gcctaaatgt gtagaaaagg actaaggcaa aacaataact      120
tttttgagct cttgccatgt gtgaagcact ttatacacct gtaaggtagg taacgttggt      180
cttattaaac atgaagaaaa tgagactttg tgagaagcaa tacagtatag aagttaagaa      240
tatggactct aaagctagat ttcagagggt tgaagtagct ctgctactta ctggctgtgt      300
gactttgagc agattactta acctgtctgt gcctatggtt acttttattg ttgtaaaaag      360
atatgcaaca taaaatatcc catttcaacc gtttttacgt gtataacttca ctgacattag      420
ttgcattcac tatgttgtgc aaacgtaggg tcgctatgaa gattaaatga gttaattcat      480
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cattgttaga gagctttagt gatttgctta agacagaaag gtanactggg gtgcggtggg      600
ctcacgccct ggtta                                     615

<210> 310
<211> 711
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (345)..(345)
<223> n equals a,t,g, or c

<400> 310
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cccagggagt aggggctacc ttgaggggat gatagacct cccactccc agtgkkactc      180
tggaatatag aaggaactag ggagtggaag agatttcaga gctggggaga ggagttcctc      240
ccttcaaagc cagcaactgc ctttggggaa tgtcgggggg tctctccttt ctctcgttg      300
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tcagctttcc cttggggcag gatcgggggc agcagctcca gcagaaacag caggatctgg      420
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ggragctggg cagcctcttc caggccttcg tgaagagga gagccaggct taacgtaag      540
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tggttgtaaa gtggagcaat cccttcacgc tccttggcca tgttctgagc ggccagcttg      660
gcctttgcct taataaatgt gctttatatt caaaaaaaaaa aaaaaaaaaa t          711

<210> 311
<211> 553
<212> DNA
<213> Homo sapiens

<400> 311
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tctcctctct ctcctgtcc tggggctgtt ggtgtctagc aagaccctgt gctccatgga      120
agaagccatc aatgagagga tccaggaggt cgccggctcc ctaatattta ggggaataag      180
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cgagaccaca tgtcactgcc agtgcgcggg catggactgg accggagcgc gctgctgtcg      360
tgtgcagccc tgaggtcgc cgcagtggca acagcgcggg cggaggcggc tccaggtccg      420
gagggttgcg ggggagctgg aaataaacct ggagatgatg atgatgatga tgatggaaaa      480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      540
aaaaaaaaaa aaa                                     553

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<210> 312
<211> 1614
<212> DNA
<213> Homo sapiens

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<400> 312
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gggccggcac cagcattttg tggttacgaa ttctacagtc acaaatatct ttgggcaaat      180
ccccttctat acctcaaggc agcttttggg ttgcaacccc actggccaga gggaaagggcc      240
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<210> 313
<211> 1087
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (55)..(55)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (63)..(64)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature
<222> (174)..(174)

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<223> n equals a,t,g, or c

<400> 313

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tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtaaa	agaggaaagt	300
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<210> 314

<211> 1191

<212> DNA

<213> Homo sapiens

<400> 314

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<210> 315

<211> 1626

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (525)..(525)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (542)..(542)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (562)..(562)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (607)..(607)
 <223> n equals a,t,g, or c

<400> 315
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 tgggtgaagg cctgtgcggg aggcgacagt gaaaccctt gccatcgaca tatttcctgt 240
 caccaacaaa gatttcaggg attttgtcag ggagaaaaag tatcggacag agctgagat 300
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 aatagtactc cagaaagacc ctgtctcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
 aaaaaa 1626

<210> 316
 <211> 2351
 <212> DNA
 <213> Homo sapiens

<400> 316
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 ccagagaaca gggctcccca ttacaatctt ttcgagatct tttcccttgc taaccggatc 180

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taaaagaaga	actgagccca	atccaacctg	ttggcaaatt	tctttgtgta	aagctgggtg	960
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<210> 317
 <211> 1001
 <212> DNA
 <213> Homo sapiens

<400> 317						
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<210> 318
 <211> 669
 <212> DNA
 <213> Homo sapiens

<400> 318						
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<210> 319
 <211> 417
 <212> DNA
 <213> Homo sapiens

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<210> 320
 <211> 1949
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1130)..(1130)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1948)..(1948)
 <223> n equals a,t,g, or c

<400> 320						
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ggccagggtg	cgacgggctg	tgacacaccg	tcgtgggcta	cgaggccgac	cgcgccgccca	180

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tggaacccac cgtggtgggc agcagggtc cccggcaggc ttggtggact ctgctggcag 1860
caataaaga gatgacggca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1920
aaaaaaaaaa aggggggggg gctagtnt 1949

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<210> 321
<211> 1487
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (78)..(78)
<223> n equals a,t,g, or c

```

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<220>
<221> misc_feature
<222> (948)..(948)
<223> n equals a,t,g, or c

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<400> 321
ccgctgctga taactatggc atcccccggt cctgcaggaa ttccggcacgg agctacggcg 60
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gcacagcgca ccagctgggg gcccaggacg tgcccgtgtt ccggaacctg tcctgctgg 180
tggtgggtgt cggcgccgtg ttctcactgc tattccacct gggcacccgg gagaggcgcc 240
ggccgcatgc ggagagacca ggcgagcaca cccccctgtt ggccccctgcc acggcccagc 300
ccctgctgct ctggaagcac tggctccggg agcsggcttt ctaccagggtg ggcatactgt 360
acatgaccac caggctcatc gtgaacctgt cccagaccta catggccatg acctcacct 420
actcgtcca cctgcccagg aagttcatcg cgaccattcc cctgggtgatg tacctcagcg 480
gcttcttgtc ctccctcctc atgaagccca tcaacaagtg cattgggagg aacatgacct 540
acttctcagg cctcctggtg atcctggcct ttgccgctgt ggtggcgctg gcggagggac 600

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tgggtgtggc	cgtgtacgca	gcggtctgtgc	tgctgggtgc	tggctgtgcc	accatcctcg	660
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tgtacggctc	catgagcttc	ttggataaagg	tggccaatgg	gctggcagtc	atggccatcc	780
agagcctgca	cccttgcccc	tcagagctct	gctgcagggc	ctgcggagc	ttttaccact	840
ggcgcatggt	ggctgtgacg	ggcggcgtgg	gcgtggccgc	tgccctgtgt	ctctgtagcc	900
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gcacgatttg	tgacagcccc	aggcggagaa	caccgaacac	ccagtgaagg	tgaggggatc	1020
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cgaagctctg	acccaggcca	cagtgcggat	gcaccttgag	gatgtcacgc	tcagtgaag	1140
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gatgggatgg	ctgcacggcg	tgggtgaagg	actgaacgcc	acctcactgt	aagacggtag	1380
attttgtatt	ttaccacaat	aaacaaaaca	aaacaaaacc	aaaaaaaaaa	aaaaaaaaaa	1440
aaaaaaaaag	aattcgatat	caagcttata	gataccgtcg	acctcga		1487

<210> 322

<211> 1525

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (78)..(78)

<223> n equals a,t,g, or c

<400> 322

ccgctgctga	taactatggc	atcccccg	cctgcagga	ttcggcacgg	agctacggcg	60
ccgcctggct	cctgctgnca	cctgcagget	cgtcgcgggt	ggagcccacc	caagacatca	120
gcacacagca	ccagctgggg	ggccaggacg	tgcccgtgtt	ccggaacctg	tccctgctgg	180
tgggtgggtgt	cggcgccgtg	ttctcactgc	tattccacct	gggcaccccg	gagagggcgc	240
ggccgcatgc	ggasgagcca	ggcgagcaca	ccccctgtt	ggcccctgcc	acggcccagc	300
ccctgctgct	ctggaagcac	tggctccggg	agcsggcttt	ctaccagggtg	ggcatactgt	360
acatgaccac	caggctcatc	gtgaacctgt	cccagacct	catggccatg	tacctcacct	420
actcgtccca	cctgcccaag	aagttcatcg	cgaccattcc	cctgggtgatg	tacctcagcg	480
gcttcttgtc	ctccttcttc	atgaagccca	tcaacaagtg	cattggggagg	aacatgacct	540
acttctcagg	cctcctgggtg	atcctggcct	ttgccgcctg	ggtggcgctg	gcggagggac	600
tgggtgtggc	cgtgtacgca	gcggtctgtc	tgctgggtgc	tggctgtgcc	accatcctcg	660
tcacctcgct	ggccatgacg	gccgacctca	tcgggtcccca	cacgaacagc	ggactkctgt	720
gtacggctcc	atgagcttct	tggataaagg	ggccaatggg	ctggcagtc	tggccatcca	780
gagcctgcac	ccttgccccct	cagagctctg	ctgcagggcc	tgctgtagct	tttaccactg	840
ggcgatggtg	gctgtgacgg	gcggcgtggg	cgtggccgct	gccctgtgtc	tctgtagcct	900
cctgctgtgg	ccgacccgcg	tgcgacgctg	ggaccgtgat	gcccggccct	gactcctgac	960
agcctcctgc	acctgtgcaa	gggaactgtg	gggacgcacg	aggatgcccc	ccarggcctt	1020
ggggaaaagc	ccccactgcc	cctcactctt	ctctggaccc	ccaccctcca	tctcacc	1080
gctcccgggg	gtgggggtcg	gtgagggcag	cagggatgcc	cgccagggac	ttgcaaggac	1140
cccctgggtt	ttgaggggtg	cccattctca	actctaatec	atcccagccc	tctggaggat	1200
ttgggggtgcc	cctctcggca	gggaacagga	agtaggaatc	ccagaagggt	ctgggggaac	1260
cctaaccctg	agctcagtc	agtcacccc	tcacctccag	cctggggggtc	tccagacact	1320
gccaggggccc	cctcaggacg	gctggagcct	ggaggagaca	gccacggggg	ggtgggctgg	1380
gcctggaccc	caccgtgggtg	ggcagcaggg	ctgcccggca	ggcttgggtg	actctgctgg	1440
cagcaataaa	agagatgacg	gcaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaccaccg	tccgc				1525

<210> 323

<211> 1050

<212> DNA

<213> Homo sapiens

<400> 323

ccacgcgtcc	ggccagccag	tccgcccgtc	cggagcccgg	ctcgctgggg	cagcatggcg	60
gggtcgccgc	tgctctgggg	gcgcggggcc	gggggcgtcg	gccttttggt	gctgctgctg	120
ctcggcctgt	ttcggccgcc	ccccgcgctc	tgcgcgcggc	cggtaaagga	gccccgcggc	180
ctaagcgcag	cgtctccgcc	cttggtctaga	ctggcgctcc	tcgccgcttc	cggcgggtcag	240
tgccccgagg	tgaggcggcg	ggggcggtgc	agacctggcg	cgggcgctgg	cgatctgct	300
ggagccgaac	gtcaggagcg	ggcgcgggcc	gaggcgcaga	ggctgaggat	cagcaggcgc	360
gcgtcctggc	gcagctgctg	cgcgtctggg	gcgcccccg	caactctgat	ccggctctgg	420
gcctggacga	cgaccccgac	gcgcctgcag	cgcagctcgc	tcgcgctctg	ctccgcgccc	480
gccttgaccc	tgccgæcta	gcagcccagc	ttgtccccgc	gcccgtcccc	gccgcggcgc	540
tccgaccccg	gcccccggtc	tacgacgacg	gccccgcggg	cccggatgct	gaggaggcag	600
gcgacgagac	acccgacgtg	gaccccgagc	tgttgaggta	cttgctggga	cggattcttg	660
cgggaagcgc	ggactccgag	gggtgggcag	ccccgcgccg	cctccgcgt	gccgcgcacc	720
acgatgtggg	ctctgagctg	ccccctgagg	gcgtgctggg	ggcgctgctg	cgtgtgaaac	780
gcctagagac	ccggcgcccc	caggtgcctg	cacgcgcctt	cttgccaccc	tgagcactgc	840
ccggatcccc	tgcaccctgg	gacccagaag	tgcccccgcc	atcccgccac	caggactgct	900
ccccgccagc	acgtccagag	caacttacct	cggccagcca	gccctctcac	ccgaggatcc	960
ctacccccctg	gccccacaat	aaacatgatc	tgaagcagca	aaaaaaaaaa	aaaaaaaaaa	1020
aaaaaaaaaaa	aaaaaaaaaaa	aaaaaaaaaaa				1050

<210> 324

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (20)..(20)

<223> n equals a,t,g, or c

<400> 324

ccacgcgtcc	gctccgcggg	cgcctcgggc	ggaacctgga	gataatgggc	agcacctggg	60
ggagcccttg	ctgggtgcgg	ctcgctcttt	gacctgacgg	cttagtgctc	tcgctctacg	120
cgctgcacgt	gaaggcggcg	cgcgccccgg	accgggatta	ccgcgcgctc	tgcgacgtgg	180
gcaccgccat	cagctgttcg	cgcgtctttc	cctccagggt	gcctgsggac	acgctgggcc	240
tctgtmctga	tgctgctgag	ctccctgggt	tctctcgctg	gttctgtcta	cctggsctgg	300
atcctgttct	tcgtgctcta	tgawtttctg	cattgtttgta	aatcaccacc	tatgctatca	360
acgtgacctg	atgtggctca	gtttccggaa	ggtccaagaa	ccccagggca	aggctaagag	420
gcaactgagc	ctcaacccaa	gccaggctga	cctcatctgc	tttgcttttg	catgtgagcc	480
ttgcctaagg	gggcataatc	gggtccctag	aaggccctag	atgtggggct	tctagattac	540
ccctcctctc	tgccataccc	gcacatgaca	atggacaaaa	tgtgccacac	gctcgctctt	600
ttttacaccc	agtgcctctg	actctgtccc	catgggctgg	tctccaaagc	tctttccatt	660
gcccagggag	ggaaggttct	gagcaataaa	gtttcttaga	tcaaaaaaaaa	aaaaaaaaaaa	720

<210> 325

<211> 990

<212> DNA

<213> Homo sapiens

<400> 325

gcatgccagt	gcctactctg	tgccctgctgt	gggccctggc	aatggtgacc	cggcctgcct	60
cagcggcccc	catggscggc	ccagaactga	cacagctatg	ggagctgacc	ctgctcttcc	120
acgggaccct	gcagctgggc	caggccctca	acggtgtgta	caggaccacg	gagggacggc	180
tgacaaaagg	caggaacagc	ctgggtctct	atggcgcgac	aatagaactc	ctggggcagg	240
aggtcagccg	gggcggggat	gcagcccagg	aacttcgggc	aagcctgttg	gagactcaga	300

tggaggagga	tattctgcag	ctgcaggcag	aggccacagc	tgaggtgctg	ggggaggtgg	360
cccaggcaca	gaaggtgcta	cgggacagcg	tkca g gggct	agaagtccag	ytragragcg	420
cctggctggg	ccctgcctac	cgagaatttg	aggtcttaaa	ggctcacgct	gacaagcaag	480
agcccacatc	ctatggccct	cacaggccac	gtcagcgga	gagggcggag	atggtggcac	540
agcagcatcg	gctgcgacag	atccaggaga	ggtgagcctg	gcagggggtt	ggcaggcagg	600
gcagttggat	ggggggcgca	cagggcagct	ggaaaggggc	cccctcacct	gggctgagcc	660
acatctccct	ccccagactc	cacacagcgg	cgctcccagc	ctgaatctgc	ctggatggaa	720
ctgaggacca	atcatgctgc	aaggaacact	tccacgcccc	gtgaggcccc	tgtgcaggga	780
ggagctgcst	gttcaactggg	aymagccagg	gcgcggggcc	ccacttctga	gcacagagca	840
gagacagacg	caggcgggga	caaaggcaga	ggatgtagtc	cccattgggg	aggggtggag	900
gaaggacatg	taccctttca	tgcctacaca	cccctcatta	aagcagagtc	gtggcatctc	960
aaaaaaaaaa	aaaaaaaaaa	aaaactcgt				990

<210> 326

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (525)..(525)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (578)..(578)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (581)..(581)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (620)..(620)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (629)..(630)

<223> n equals a,t,g, or c

<400> 326

gtgaaacgcc	tgggctcaag	ctgattcacc	tgcctccacc	tcccacgtg	ctgggattac	60
aaacatgatc	ccccacgccc	agccaacaca	aaacttctga	tgctctgttt	tctcatctgt	120
gaactggagc	taaggctaag	tggctctgtc	gtttaataag	agtttgaatc	agatggcctg	180
gcatgaagag	tactggccct	gagagaatgt	caggggcatt	tgtaaagtgt	taaagggctg	240
aaaaatcctg	agggattatt	attattgcta	ttgttgttat	tattcacaga	cacatyaac	300
agccattgtc	tgcctcctta	tctgtcatgc	tttctgcacg	agcgtcagcc	tgagcttcaa	360
tctgtgtgta	tatctgcagc	ttacgtcctt	gcacccctcc	agaacccagt	ttcatccttg	420
taggtttttc	craagcagga	tttgacaag	tggcgtgttt	tttaagtat	ttattttgca	480
ggccatttac	tcggcatggc	tatttttaca	gtgggtaagg	agcanggcta	aaaataactt	540
agctcataac	cagacagggt	ctgcatttga	cattacngng	nattcatttg	catcccatth	600
ggtcgccttt	ctggttaacn	ggtagaatnn	aagaaagctc	acccgaa		647

<210> 327

<211> 1321
 <212> DNA
 <213> Homo sapiens

<400> 327

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gctccgctcc	gatcgctgtg	gggcttggtt	ttttgggggt	gggggggcgg	gggggctcag	120
atatggaggg	aaatgggagc	caaggcacct	cgggcagcgcc	caacgactcc	cagcacgacc	180
ccggtaaaat	gtttatcggg	ggactgagct	ggcagacctc	accagatagc	cttagagact	240
attttagcaa	atttggagaa	attagagaat	gtatggtcac	gagagatccc	actacgaaac	300
gctccagagg	cttcggtttc	gtcacgttcg	cagaccagc	aagtgtagat	aaagtattag	360
gtcagcccca	ccatgagtta	gattccaaga	cgattgacct	caaagttgca	tttcctcgtc	420
gagcgcaacc	caagatggtc	acaagaacaa	agaaaatatt	tgtaggcggg	ttatctgcga	480
acacagtagt	ggaagatgta	aagcaatatt	tcgagyagtt	tkgcaagggtg	gaagatgcaa	540
tgctgatgtt	tgataaaaact	accaacaggc	acaggggtt	tggtttgtc	acttttgaga	600
atgaagatgt	tgtggagaaa	gtctgtgaga	ttcattttcca	tgaaatcaat	aataaaatgg	660
tagaatgtat	gaaagctcag	ccgaaaagaag	tcattgtccc	acctgggaca	agaggccggg	720
cccggggact	gccttacacc	atggacgcgt	tcattgttgg	catggggatg	ctgggtgagt	780
ctggacagga	ccgcaggtca	ccatggactg	ggagggttat	ggaggcctct	actcccaact	840
gggtcaccta	ccagtggggc	aaactgcttc	acctttctaa	gcctcagttt	ccttgtctgt	900
agatgaggat	gataattccc	cgttccaaga	cagttgtgat	gattaagtg	gggtgtgtgt	960
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aaaagtcccc	ctctatctgc	ctcagccctc	tcattgtgag	gggagtttyt	aagatgtaag	1140
gactcctggc	tgacttgact	tgtgtgggct	aaggctacgt	tttctaaaac	ttgggagagg	1200
agggaagtgg	taagggtggg	cgataatcct	gtctatttta	atgattaaca	tttttctctt	1260
gggatatcaa	aatttgcatt	taaatggatg	ttttaaatag	cctgtttttac	tctttatttg	1320
c						1321

<210> 328
 <211> 729
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (725)..(725)
 <223> n equals a,t,g, or c

<400> 328

tcgaccacag	cgtccggcca	tttagaaata	atcaactctt	aatcagcctg	ggatagtcag	60
tactaaaagc	accttcatga	gctgtgaaaa	atttaaatgca	tttattttaca	tatttagttt	120
taaatttttag	tatatgttta	gttgaggtat	agttttccaaa	caaagagccg	tgaaatgttt	180
agtaactgtc	tctgtacctc	tgatgagga	cagctcagcc	gggaatggag	ggggactggg	240
tgaggagacc	agaatgtcag	tgtggccacg	cagcacactt	ttgttttgtc	ttctgtcctt	300
gagcactggc	ttgttccttg	taaaactagg	cataataata	cctatcctgc	tgtgtgggtg	360
gaagttaaata	gtgataatga	tgtgtgtgag	atgcctgcac	agtgcctgga	ggtattgaag	420
aattattgct	gcctwttctt	tttctacctc	ccacttaccc	gctacccccc	ggtgctacat	480
gttagaaaac	actgtgtaaa	gtgtggatgc	ttctgaaaaa	tctccctgcc	agagtttagt	540
gccaatagcg	tgcaaaaaat	aagatgcaat	gatttggctt	cttttctgtt	tggaataaag	600
aagcttattt	gcmcatagcc	tgatttcttt	caatctgcaa	aaaaaaaaaa	aaaaaaaaaa	660
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	720
rgggnggcc						729

<210> 329
 <211> 1084
 <212> DNA

<213> Homo sapiens

<400> 329

ggatggcgct	acgtctgctg	cggagggcgg	cgcgcggagc	tgcggcgggc	gcgctgctga	60
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acaagtacat	cccccgagg	gcagtgcctt	atgtacctgg	aatgatgaa	aagaaaataa	180
agaagattcc	atccctgaat	gtagattgtg	cagtgtctga	ctgtgaggat	ggagtggctg	240
caaacaaaa	gaatgaagct	cgactgagaa	ttgtaaaaac	tcttgaagac	attgatctgg	300
gccctactga	aaaatgtgtg	agagtcaact	cagtttccag	tggctctggc	gaagaagacc	360
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gtcctgaaga	aatccagtgg	gcagtgtgtg	aagaaaccct	gaaggtcggg	cctcaagtag	480
gtctctttct	agatgcagtc	cgtttttgga	ggaraagact	ttcgagcac	ataggtgcam	540
caagtartaa	agaaaccctg	gatawtctct	acgcccggca	aaagattggt	gtcatagcga	600
aagccttttg	tctccaagcc	gtaratctgg	kgkacattga	ctttcgagat	ggarctkggc	660
tgttagagaa	gtcacgagaa	ggagccgcca	tgggcttcac	tggtaagcag	gtgattcacc	720
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ccacctccat	caaggaaaaa	tgatctgtta	aatgaagctg	catcaggct	aaaggtatt	960
gaagctgcag	agggatcaac	ttgtgcttgc	cagaggacgc	caatgaagtt	tgaaacacca	1020
acaatcagag	atthttgttc	tgttcctcat	taaatcatga	gcttttgtgc	cgagaaaaaa	1080
aaaa						1084

<210> 330

<211> 1776

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1748)..(1748)

<223> n equals a,t,g, or c

<400> 330

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atcctcacag	catggttcta	attaactttc	tagcttatt	tcccttttcc	tgctccctct	120
ctctacaact	agtctttctc	tgattgcccc	gccctcaacc	catctaaact	agaccccagg	180
gaagcacctt	ggctcccttc	ctctctccca	ctcaccatcc	aaccaatcac	cagagcctgt	240
acattctata	ttttcaacat	cgattcaatt	gtctacttct	ttctagcctg	ccctctctga	300
ctgggactcc	ttgagccagc	ctgatcacco	caatccatcc	ctcacactgt	gcccattctt	360
ctgaagtagg	aatctgatca	caccamcctg	ctaaaaacac	tctggttctc	cccacggcat	420
gtggtgccct	tgtatagctg	gcaaagcctt	gcatggcacg	gccccagcct	gtgcttcaac	480
tcaattgccc	gactctctcc	agctctgctg	agccaccta	gtcacagatg	gtttctcttc	540
tcatctctgc	tctcttccat	gtgccatttc	tgtggcttgg	aatgtttctc	cctcattctc	600
tttctggccc	tttcccgta	caccttagac	gtgcattctc	ctctcgaaaa	cctctagtga	660
agcctcccag	ggccaggcag	taccctcctc	tggcttcttc	tggatacaga	ggaagaatct	720
gagcatcgat	tctccatctc	agcaggcctc	tgtgtgcctg	ctgactccga	ctagaccaga	780
gatccgtaag	gacagggatc	gagttttttt	tcttttaatk	caactgcctc	aaaatcctct	840
gtgcattacc	tattcatcct	cttctctccc	ttaacctgaa	ccagtgatct	tactgtctcc	900
atcattgttt	ttttcttttc	ttttcttttc	tttttttttt	ttgaggtgga	gtctggctct	960
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ccccaaactaa	tttttgccctc	cataattytg	ccttttstg	aatgtcatac	aggtgaatt	1140
actcagtatg	ctgccttttt	cagattggct	tctttcactt	agtaatatgs	tygttttttg	1200
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aacctccacc	tcccagggtc	aagtgaytct	stcgctcag	cctcccgagt	agctgggact	1320
acaggcacgt	gccaccatac	ccggctaatt	tgtggatttt	tagtacagac	gsggtttcgt	1380

catgttggcc	agtgtgytgt	tgaattcctg	acctcaagtg	atccacctgc	ctcagcctcc	1440
caaagtgttg	cgattacagg	tgtgagccac	tgcgccaagc	ctcatttagt	aataygcatt	1500
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<210> 331
 <211> 784
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<400> 331	
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acaaacatca	gcttaggaac tatgtcctat gtttttttgt tttttttttt ttttaaaaag 540
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cgag	
	784

<210> 332
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (30)..(30)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (46)..(46)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (66)..(66)

<223> n equals a,t,g, or c

<400> 332

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cagtrgcaga	agccacattg	tgctcaggtc	ttagttctaa	caaacacccat	tccccattaa	180
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aaccatcatg	gtaattacca	gatcagataa	ggatcaacag	atgccaaatc	tagggcaaat	600
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<210> 333

<211> 3546

<212> DNA

<213> Homo sapiens

<400> 333

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aaaaaa						3546

<210> 334
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (618)..(618)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (715)..(715)
 <223> n equals a,t,g, or c

<400> 334	
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ggaaggcttt	tcctctgnga	gccccaggcc	accctttccc	tcctttaagt	aattacttaa	660
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<210> 335
 <211> 1396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1187)..(1187)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1325)..(1325)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1327)..(1327)
 <223> n equals a,t,g, or c

<400> 335						
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<210> 336
 <211> 1397

<212> DNA
<213> Homo sapiens

<400> 336

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<210> 337
<211> 1368
<212> DNA
<213> Homo sapiens

<400> 337

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<210> 338
<211> 1763
<212> DNA
<213> Homo sapiens

<400> 338
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<211> 1274
<212> DNA
<213> Homo sapiens

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 <212> DNA
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 <223> n equals a,t,g, or c

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<220>
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 <223> n equals a,t,g, or c

<400> 340

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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gcaggagcag	gcccttggat	ttggtgttca	tcctcgatag	ttcccgcagt	gtgcggcccc	360
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<210> 343
 <211> 1586
 <212> DNA
 <213> Homo sapiens

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ataatgtagg	attttttacc	aaaacttgg	aagaagttaa	aacacttaat	tcaaaactaa	300
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gcattaaaga	aacagttcta	aattatat	acctcaatta	tatgaacttt	tttatgtgta	480
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aaaattaaat	ggctcaattg	gtaaataaag	agataccaaa	cttttcattc	tattcccat	660
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<210> 344
 <211> 1011
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (2)..(2)
 <223> n equals a,t,g, or c

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tctcaagagc	ataccacatt	ttaaacacat	ta tg gtcatg	tagctatttc	aatattcctg	300
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 <211> 1063
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> n equals a,t,g, or c

<220>
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 <222> (30)..(30)
 <223> n equals a,t,g, or c

<220>
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<222> (1032)..(1032)
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<220>
 <221> misc_feature
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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1062)..(1062)
 <223> n equals a,t,g, or c

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taaaagaaaa aaacacacat cctggaagtc tgtaagttgt tttttgttac tgtaggtctt      240
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cactgtgatt tcaagcatgt tttctttttc tcctttatat gactttctct gagttgggca      420
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aatgttcctt aaagggttaac atttctaag caatattaag aaagacttta aatgttattt      600
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<210> 346
 <211> 1178
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (3)..(3)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n equals a,t,g, or c

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tggggctcag tagaaggaaa agcttcctag tgataagagt gattggcaat accagaggt      480
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aaagtgttct	cagaaaagcc	acacccatta	gaaaaatata	aggccagtcg	acgcggccgc	1140
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<210> 347

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (570)..(570)

<223> n equals a,t,g, or c

<400> 347

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<212> DNA

<213> Homo sapiens

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<223> n equals a,t,g, or c

<220>

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<223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (36)..(36)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (107)..(107)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (150)..(150)

<223> n equals a,t,g, or c

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<221> misc_feature

<222> (323)..(323)

<223> n equals a,t,g, or c

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<222> (1307)..(1307)

<223> n equals a,t,g, or c

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<222> (1337)..(1337)

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<222> (1341)..(1341)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1343)..(1343)

<223> n equals a,t,g, or c

<400> 352

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 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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<210> 354
 <211> 995
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (12)..(12)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (925)..(925)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (953)..(953)
 <223> n equals a,t,g, or c

<400> 354						
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<210> 355
 <211> 751
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (146)..(146)
 <223> n equals a,t,g, or c

<400> 355						
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gtagtcccag	ctactcggga	ggctgaggtg	ggagaattgc	ttgagcccag	gagtttgagg	660
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<210> 356

<211> 1177

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1095)..(1095)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1115)..(1115)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1142)..(1142)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1162)..(1162)

<223> n equals a,t,g, or c

<400> 356

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<210> 357
<211> 1775
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (820)..(820)
<223> n equals a,t,g, or c

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<400> 357
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<210> 358
<211> 866
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

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<220>
<221> misc_feature

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<222> (27)..(27)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (33)..(33)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (105)..(105)
 <223> n equals a,t,g, or c

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<210> 359
 <211> 1237
 <212> DNA
 <213> Homo sapiens

<400> 359
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 <211> 1681
 <212> DNA
 <213> Homo sapiens

<400> 360
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<210> 361
 <211> 1863
 <212> DNA
 <213> Homo sapiens

<400> 361
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<210> 362
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<400> 362						
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aaaaaggaat	catttctccc	tccctcccac	cacatagaat	caacatatgg	tagggattac	1020
agtgggggca	tttctttata	tcacctctta	aaaacattgt	ttccacttta	aaagtaaaaa	1080
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<210> 363
 <211> 626
 <212> DNA
 <213> Homo sapiens

<400> 363						
gcccacgcgt	ccgcctaaac	acagtcacca	tgaagctggg	ctgtgtcctc	atggcctggg	60
ccctctacct	ttcccttggg	gtgctctggg	tggcccagat	gctactggct	gccagttttg	120
agacgctgca	gtgtgaggga	cctgtctgca	ctgaggag	cagctgccac	acggaggatg	180
acttgactga	tgcaagggaa	gctggcttcc	agggtcaaggc	ctacactttc	agtgaaccct	240
tccacctgat	tgtgtcctat	gactggctga	tcttccaagg	tccagccaag	ccagtttttg	300
aaggggacct	gctggttctg	cgctgccagg	cctggcaaga	ctggccactg	actcaggtga	360

ccttctaccg	agatggctca	gctctgggtc	ccccggggcc	taacagggaa	ttctccatca	420
ccgtggtaca	aaaggcagac	agcgggcact	accamtgcag	tggcatcttc	cagagccctg	480
gtcctgggat	cccagaaaca	gcctctgttg	tggctatcac	agtccaagaa	ctgtttccag	540
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attccagatc	cccacagctt	cagaaa				626

<210> 364
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (41)..(41)
 <223> n equals a,t,g, or c

<400> 364						
cagcccagct	tcatggtgac	tgtgttttagg	tctccctcgt	nccgaattcc	tgcagcccg	60
gggatccact	agttctagag	cggccgccac	cgcggtrgag	ctccagcttt	tgttcccttt	120
agtgagggtt	aatttcgagc	ttggcgtaat	ca			152

<210> 365
 <211> 1760
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1693)..(1693)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1748)..(1748)
 <223> n equals a,t,g, or c

<400> 365						
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agaactgttt	ccagcgccaa	ttctcagagc	tgtaccctca	gctgaacccc	aagcaggarg	180
ccccatgacc	ctgagttgtc	agacaaagtt	gcccctgcag	aggtcagctg	cccgccctct	240
cttctccttc	tacaaggatg	gaaggatagt	gcaaagcagg	gggctctcct	cagaattcca	300
gateccccaca	gcttcagaag	atcactccgg	gtcatactgg	tgtgaggcag	ccactgagga	360
caaccaagtt	tggaaacaga	gccccagct	agagatcaga	gtgcagggtg	cttcagctc	420
tgctgcacct	cccacattga	atccagctcc	tcagaaatca	gctgctccag	gactgctcc	480
tgaggaggcc	cctggctctg	cctccgccgc	caaccccatc	ttctgaggat	ccaggctttt	540
cttctcctct	ggggatgcca	gatectcatc	tgtatcacca	gatgggcctt	cttctcaaac	600
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gccaccrgaa	gcctgggacc	acaaaggcta	ctgctgaata	gaagtaaaca	gttcatccat	720
gatctcactt	aaccacccca	ataaatctga	ttctttattt	tctcttctctg	tcctgcacat	780
atgcataagt	acttttacaa	gttgctccag	gtttttgtta	gaataatgta	gttaggtgag	840
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ttttgcccc	aagaggacat	tgggcaatgt	ttggagacat	tttggtcatt	atacttgggg	1080
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gaacttccag	cctccagaac	tatgagaaat	aaaattctgt	tgtttgtaag	ctaataccagt		1680
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gttatggnat	gtaaaaatac						1760

<210> 366
 <211> 880
 <212> DNA
 <213> Homo sapiens

<400> 366							
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cagctagaac	aagagggtac	aacaggctgg	gagagttac	tgtgggttgt	caatcaattg		300
ttgccacaac	ttatagaaat	agttggcaaa	attaatgtta	cttcaactgc	ctgtgtccat		360
gaattctcca	gatttttctg	gcgcctttgc	cggacatttg	gcaaaaattt	tacaaacact		420
aaggtaaaac	ctcagttcca	ggagatttta	agactatctg	aagaaaacat	tgattcctca		480
gcaggaaatg	gggtcctcac	taaagctaca	gtccccattt	atgcaacagg	agtccttacg		540
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ctgctttcat	tatctcatgc	tcctcttgat	agcctgaagg	cttcttttgt	ggaattgggt		660
gcaaaccag	cctaccatga	gttactatta	actgttttgt	ggtatggtgt	tgtccatact		720
tcagcactcg	tgaggtgtac	tgctgctaga	atgtttgagg	tatgtcaaca	catgcctctg		780
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aaaaggcttt	gcataatcaa	aaaaaaaaaa	aaaaaaaaaa				880

<210> 367
 <211> 1106
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (5)..(5)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (857)..(857)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1037)..(1037)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (1058)..(1058)
 <223> n equals a,t,g, or c

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<400> 367
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ctgtcagcct tgggtgatcc ctacagaaaga gtagttagtg ctacacata agtattttta      120
ccagcttacg ctgctgggac tacagaactt ggaaatttac agtctcatct tatacttaca      180
ctactgaaca agattgaaaa acttctcagg gaaggagAAC atggactgga tgaacacaaa      240
ctccacatgt atctttctgc cttgcagtcC ttgatcccat ctctctttgc attagtgcta      300
cagaatgcac ctttctccag caaagccaag cttcatggtg aagtgccaca gatagaagtg      360
actaggtttc ctcggcctat gtcgcctctt caagatgtgt ccactattat cggaagtcgt      420
gagcaattgg cagtgcctgt gcaactttat gactaccagc tagaacaaga ggttacaaca      480
ggctggggaga gtttactgtg ggttgtcaat caattgttgc caaacttat agaaatagtt      540
ggcaaaaatta atgttacttc aactgcctgt gtccatgaat tctccagatt tttctggcgc      600
ctttgccgga catttggaac aattttttaca aacactaagg taaaacctca gttccaggag      660
attttaagac tatctgaaga aaacattgat tcttcagcag gaaatggggt cctcactaaa      720
gctacagtcc ccatttatgc aacaggagtc cttacgtgtt atattcagga agaagaccga      780
aaactgtttag ttggattctt agaagatgta atgacgctgc tttcattatc tcatgctcct      840
cttgatagcc tgaaggnttc ttttgtggaa ttgggtgcaa accaggccta ccatgagtta      900
ctattaactg ttttgkggta tggkgtkgkc catacttAg cactcgtgag gtgtactgct      960
gctagaatgt ttgagctgtt ggtgaagggg gtgaatgaaa ctctggtagc tcagaggggt      1020
gttcctgctc ttcattnact ctctccagtg gaccctgnaa atctctgtca ggattgccac      1080
aatttcagc ctttgggact atttat                                     1106

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<210> 368
<211> 646
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (19)..(19)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (544)..(544)
<223> n equals a,t,g, or c

```

```

<400> 368
cagatgccag ggacttggnC ttcccccggt tgaAcacag gttccaagaa acctgcaggg      60
tccagcctcc ccccatccc cagtyttccc caccctggcc cggccctcca ggtgcagaaa      120
catgcaggcc cctctccagg actgtgggag gagtgtgtcc ctCagactgg cctgtgtcct      180
ggctcctctt accacctctt ccagaggttg tcacctgcag ctgcccagc ataaaggcaa      240
ggccagarag gactcctgaa ctctgtgtg cctgggggtg caggggcaaa catagccaac      300
tgggtggcctg agcggggcca tgggtgargac acccttggtg gcttgtccca catcaagctg      360
ggargtgaca cttaggatgc atttttcaat attttagtgt ttgaataacg ggctawcttg      420
agaaaaaaat aatttgaaat acacatcaA caaaaataa attctagggtg gattttaaca      480
ctttccaaaa attattatta gtttagagac aggtctcac tccgtcgcct aggctggagt      540
gcangggtat gatcatggtt cactgcaacc ttaaactccc tggcctcata tgatccccc      600
gggtccagc ccctccaaag ttactgggaa actaccaaac atgccc                                     646

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```

<210> 369
<211> 1590
<212> DNA
<213> Homo sapiens

```

```

<400> 369
tttttttttt tttgttttaa tgatacaact taattttatt aggacagacg ctggcggcca      60

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ccagaagttt	gagcctcttt	ggtagcagga	ggctggaaga	aaggacagaa	gtagctctgg	120
ctgtgatggg	gatcttactg	ggcctgtctc	tcctggggca	cctaacagtg	gacacttatg	180
gccgtcccat	cctggaagtg	ccagagagtg	taacaggacc	ttggaaaggg	gatgtgaatc	240
ttccctgcac	ctatgacccc	ctgcaaggct	acacccaagt	cttggtgaag	tggctggtac	300
aacgtggctc	agaccctgtc	accatctttc	tacgtgactc	ttctggagac	catatccag	360
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ctcctgatgg	caaccaagtc	gtgagagata	agattactga	gctccgtgtc	cagaaacact	540
cctcaaagct	actcaagacc	aagactgagg	cacctacaac	catgacatac	cccttgaaag	600
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gacttggtca	tcatgcctac	agacactatt	caactttggc	atcttgccac	cagaagaccc	1380
gagggaggct	cagctctgcc	agctcagagg	accagctata	tccaggatca	tttctctttc	1440
ttcagggcca	gacagctttt	aattgaaatt	gttatttcac	aggccagggg	tcagttctgc	1500
tcctccacta	taagtctaatt	gttctgactc	tctcctgggtg	ctcaataaat	atctaataat	1560
aacagcaaaa	aaaaaaaaaa	aaaactcgag				1590

<210> 370
 <211> 1179
 <212> DNA
 <213> Homo sapiens

<400> 370						
gggctgcagg	aattcggcac	gagtttaaaag	ggtgactcgt	cccacttggtg	ttctctctcc	60
tgggtgcagag	ttgcaagcaa	gtttatcgga	gtatcgccat	gaagttcgtc	ccctgcctcc	120
tgctgggtgac	cttgtcctgc	ctggggactt	tgggtcaggc	cccagggcaa	aagcaaggaa	180
gcaactgggga	ggaattccat	ttccagactg	gagggagaga	ttcctgcaact	atgcgtccca	240
gcagctttggg	gcaaggtgct	ggagaagtct	ggcttcgcgt	tcgactgccg	caacacagac	300
cagacctact	ggtgtgagta	cagggggcag	cccagcatgt	gcaggcttt	cgctgctgac	360
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caggtgactt	ccagcctcaa	gggcagccca	gagcccaacc	agcagcctga	ggctgggacg	540
ccatctctga	ggcccaaggc	cacagtgaag	ctcacagaag	caacacagct	gggaaaggac	600
tcgatggaag	agctgggaaa	agccaaaccc	accacccgac	ccacagccaa	acctacccag	660
cctggaccca	ggcccggagg	gaatgaggaa	gcaaagaaga	aggcctggga	acattggttg	720
aaacccttcc	aggccctgtg	cgccctttct	atcagctct	tccgaggggtg	acaggtgaaa	780
gacccctaca	gatctgacct	ctccctgaca	gacaaccatc	tctttttata	ttatgccgct	840
ttcaatccaa	cgttctcaca	ctggaagaag	agagtttcta	atcagatgca	acggcccaaa	900
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agttcagcaa	tatgataggg	aacaggtgct	gatgggcca	agagtgacaa	gcatacacaa	1020
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atgtaacgca	ttcatgaatt	tccagtgttc	agtaaatagc	agctatgtgt	gtgcaaaaata	1140
aaagaatgat	ttcagaaaaa	aaaaaaaaaa	aaaactcga			1179

<210> 371
 <211> 819
 <212> DNA

<213> Homo sapiens

<400> 371

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gctaagaaac	attcaggccg	gcagcagcag	cagagagcag	agagcactgc	aaccagacct	180
gggcctgaga	aagcagtcct	atcttcagtg	gctacaggca	gttccccctg	cattaccttg	240
acaacgtatt	caaggtctga	gtgccacgtg	gacttcttca	ggactccaga	ggaggcccac	300
gccctttcag	ctectaccag	cagactatca	gtgaaacagc	tggtcatccg	ccgtggggct	360
gctctggggg	cggcgtcagc	acactgatgg	tggggctcac	ggtcaggatc	ctagccacca	420
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cactcctcaa	aaaaagaact	ttggctgaty	ccttgtgggt	acactcagag	gggtctgaac	600
agacttgaca	attctgttct	ggtcaagctg	gagttttctt	ctgtgacttg	gactgctcta	660
cagaagacat	cagccaactg	cacgagtcag	agtccaggga	ttgtcactat	tattaataat	720
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<210> 372

<211> 1507

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1047)..(1047)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1301)..(1301)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (1507)..(1507)

<223> n equals a,t,g, or c

<400> 372

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tcgtggaccg	catggaccgc	gcgggggacg	gcgacggctg	ggtgtcgctg	gccgagcttc	360
gcgcgtggat	cgcgcacacg	cagcagcggc	acatacggga	ctcggtgagc	gcggcctggg	420
acacgtacga	cacggaccgc	gacgggctg	tgggttggga	ggagctgcgc	aacgccacct	480
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ccactcgaga	ggagctgaca	gccttcctgc	accccgagga	gttccctcac	atgcgggaca	660
tcgtgattgc	tgaaaccctg	gaggacctgg	acagaaacaa	agatggctat	gtccagggtg	720
aggagtacat	cgcggatctg	tactcagccg	agcctgggga	ggaggagccg	gcgtgggtgc	780
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accacctgct	gcacgaragc	gacacggaca	aggaygggcg	gctgagcaaa	gcgsaaatcc	960
tgggtaattg	gaacatgttt	gtgggcagtc	aggccaccaa	ctatggygag	gacctgacct	1020
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accggaggag	gggccgctgt	ggtctggccc	cctccctgtc	caggccccgc	aggaggcaga	1140
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ccctgtcaca	cccccaaccc	cagggaaggg	ctgtcatagt	cccagaggat	aagcaatacc	1260
tattttctgac	tgagtctccc	agcccagacc	cagggaacct	nggccccaa	ctcagctcta	1320
agaaccgccc	caaccctctc	agctccaaat	ctgagcctcc	accacataga	ctgaaactcc	1380
cctggcccca	gccctctcct	gcctggcctg	gcctgggaca	cctcctctct	gccaggaggc	1440
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aaaaaan						1507

<210> 373
 <211> 586
 <212> DNA
 <213> Homo sapiens

<400> 373						
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ccaggggagg	gtgcaccagg	cggccccctt	gagcgacgct	ccccatgatg	acgcccacgg	180
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gcagcggcac	atacgggact	cggtgagcgc	ggcctgggac	acgtacgaca	cggaccgcga	420
cgggcgtgtg	ggttgggagg	agctgcgcaa	cgycacctat	ggccactasg	sgcccgtgta	480
agaatttcat	gacgtggagg	atgcagagac	ytacaaaaag	atgctggytc	gggacggcgc	540
gcgtttccgg	gtggccgacc	aggatgggga	ctcgtatggc	actcga		586

<210> 374
 <211> 1792
 <212> DNA
 <213> Homo sapiens

<400> 374						
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tacacaatga	catggagaat	gggacccccg	ttcactatgc	tggttgccat	gtggctagtg	180
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<210> 375
 <211> 1673
 <212> DNA
 <213> Homo sapiens

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tccttgccag	ctttgcaggg	aagaacagag	tatgggtcat	ctcagcccct	catgcctcgg	480
aaggctacta	ccgcctcatg	atgagcctgc	tgaaggacga	tgtgtactgt	gagctggcgg	540
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<210> 376
 <211> 2084
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (775)..(775)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (2080)..(2080)
 <223> n equals a,t,g, or c

<220>

<221> misc_feature
 <222> (2083)..(2083)
 <223> n equals a,t,g, or c

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<400> 376
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accaagtgct ttataaaaaat agctcttgtt accggaaata actgttcatt tttcactcct      120
ccctcctagg tcacactttt cagaaaaaga atctgcatcc tggaaccag aagaaaaata      180
tgagacgggg aatcatcggtg tgatgtgtgt sctgcctttg gctgagtgtg tggagtcctg      240
ctcaggtgtt aggtacagtg tgtttgatcg tgggtgcttg aggggaaccg cttgttcaga      300
gctgtgactg cggctgcact gcagagaagc tgcccttggc tgctcgtagc gccgggcctt      360
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actggaggac tgtgcgggcc tgccctgggt gccctctccg ccgtggggcc ctgttgctgc      480
tgtccatcta tttctactac tccctcccaa atgcggctcg cccgcccttc acttgcatgc      540
ttgccctcct gggccttctc gcaggcactg aacatcctcc tgggcctcaa gggcctggcc      600
ccagtcgaga tctctgcagt gtgtgaaaaa acgtggccca tgggtggcca      660
tggtcataat acatcgata tctgcggctg atcctgccag agctccaggc ccggattcga      720
acttacaatc agcattacaa caacctgcta cggggtgcag tgagccagcg gtgtnatatt      780
ctcctcccat tggactgtgg ggtgcctgat aacctgagta tggctgaccc caacattcgc      840
ttcctggata aactgcccc aacagaccgt gaccgtgctg gcatcaagga tcgggtttac      900
agcaacagca tctatgagct tctggagaac gggcagcggg cgggcacctg tgcctggag      960
tacgccaccc ccttgagac tttgtttgcc atgtcacaat acagtcaagc tggctttagc      1020
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gatgcccttg agtctcagaa caactgccgc ctcatcgct accaggaacc tgcagatgac      1140
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gaccaggggt caccaggcca gagcctccag ttgtctccaa gcctctggac tgggggctct      1380
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gtccaggact tgacatctta agatgcgtct tgtcccttg ggcagtcatt ttcctctc      1500
tgagcctcgg tgtcttcaac ctgtgaaatg ggatcataat cactgcctta cctccctcac      1560
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ctgagtttgg ggtattgaat ccccggtct ccaccctgca gcatcaaggg tgctatggac      1860
tctcctgccg ggcaactctt gcgtaatcat gactatctct aggtattctg caccacttcc      1920
ttccttgccc ccttaagcct agctgtgtat cggcaccccc accccactag agtactccct      1980
ctcacttgcg gtttccttat actccacccc tttctcaacg gtcctttttt aaagcacatc      2040
tcagattaaa aaaaaaaaaa aaaaaaaaaa agggggggcn gcnt      2084
```

<210> 377
 <211> 720
 <212> DNA
 <213> Homo sapiens

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<400> 377
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tgaaaaataaa gattgtttct ttttcaatgc aagttcacag atcactggg ttctagctac      180
agtttgttct agaccagagg ttgcagatat ttttgtccta taaagagaca catggttaat      240
atttttggct ttgtgagttg tatagttttc gttgtagctg ttcagctctg ctacatgaag      300
caaccataga ccatacctta acaagtggtc acttttgagt accaataaaa ctttatttag      360
aaataacaga gggctggatt tggctcctagt ttgctgaacc cttttctaga tgaaggctcc      420
tcttgccaag actggtccc taccttggtc gacaaattct cactttggga cttatgcatt      480
gttgctgctc tctgttattt tgcatgtctt ttctcatgtt taggtgctgt gtcttaatac      540
ttttttctta catttaattt aacaatcatt actgagcgtt ggatgtcta gtttcttttc      600
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tctttctttcc	tccttttctt	ttcttttttt	ctttttcttt	atttgaaggc	tctcactctg	660
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<210> 378
 <211> 1707
 <212> DNA
 <213> Homo sapiens

<400> 378						
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tcctgggcct	ggctcctccc	ccttctcccc	atttgggctg	ctgtgccagg	gcttgctcca	180
gccacctggg	tgtgagctat	gccctctgcc	agaaatgctc	ttcctctat	tgccctggcc	240
acacctactc	agtctttggg	tctgtttaac	tgccacttcc	cccagtaaac	cttctgctcc	300
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tgtgcccgcg	cgtgttgcca	tgctaaggat	agtgcacgc	cgtgtctgca	ataggttcca	660
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tttcttagct	aatccaaaaa	aaaaaaa				1707

<210> 379
 <211> 1239
 <212> DNA
 <213> Homo sapiens

<400> 379						
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cattgcataa	atgctatagt	gtaaaaaaat	ttaaacaagt	gttaacttta	aacagttcgc	1200
tacaagtaaa	tgattataaa	tactaaaaaa	aaaaaaaaa			1239

<210> 380
 <211> 738
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (646)..(646)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (670)..(670)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (696)..(696)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (707)..(707)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (718)..(718)
 <223> n equals a,t,g, or c

<400> 380						
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ggttgtgtgt	gtggctgggtg	gtcataaagg	cctttctggc	tctaataacc	tgagcttctg	180
ttatgaagct	gggaccctta	gagcctcagg	atgatcctct	gtttgtttgt	gaagcccaa	240
tcaggtgcta	agcaccatag	tggcacttag	ctgaagctcc	tctgtaactc	ctgtgggcc	300
tgcttgccc	acccccgaca	gctgctgcag	tgctcctgag	cagcacaggc	ctgatggagc	360
ttctggagaa	gatgctggcc	ctcaccttgg	caaaggcaga	ttctcccagg	actgcactcc	420
tctgctctgc	ctggctgctc	actgcctcct	tctctgcca	gcagcacaag	ggcagtttgc	480
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agaaaaaggc	tgactactct	tcaactgcc	tcttatgctt	cctgcggaca	gccctgcgac	600
aaagcttttc	ctctgcctgg	aaccctggtg	cccttaaggg	cccagncact	gcagccacca	660
aggacactgn	cctaacttca	ctgcgaatgt	ccaagnccgg	ccctggncat	tgggctgnaa	720
aaacctcctg	gtgcaaaa					738

<210> 381
 <211> 935

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (6)..(6)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (14)..(14)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (50)..(50)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (95)..(95)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (101)..(101)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (139)..(139)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (176)..(176)
 <223> n equals a,t,g, or c

<400> 381
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 aagctttttc ccaaaaggaa aaaaagggtt gccantaatt nttcaaggat tgcccatctt 120
 taatgctttc cttggggana agccttgcca caaaagcttt ttccttctgc cctgggnagcc 180
 ctggtgcctt cagggggcca gccactgcca gccaccaagg acactgtcct agctccactg 240
 cgaatgtcgc aagtcgggc cctggtcatt gggctgcaga acctcctggg gcagaaggac 300
 cctctattgt ccagggcctg tgttggtgc ctggaggcct tgcttgacta cctggatgcc 360
 cggagcccag acattgctct ccacgtggcc tcccagcctt ggaatcgggt tttgctgttt 420
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ggggaaatgg	atgacagctg	aagctattca	tatggagcca	tatactctat	tgttgaaata	900
gaataaggaa	ataaaatgat	acactcacaa	aaaaa			935

<210> 382
 <211> 871
 <212> DNA
 <213> Homo sapiens

<400> 382						
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aagggaagaa	ctgcctccgc	tgctggccag	aactgtctgc	cttgatagac	tatgacctgc	120
agatcctctg	ggtgaccca	gggccaccca	cagaactttc	tcaaagtatt	cactccttgt	180
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aaacagccaa	attcttcact	caagtacacc	aagccattaa	aacgttacga	gatgataaaa	300
cagtacttct	ggaagagatc	tacacgcaca	agaatctctt	tactgagagg	ctgaataaga	360
tatctgatgg	gctgaaggag	aaggagcccc	acccctctcc	atgaatgcct	tcccggctcc	420
atctcctact	tgacccccag	aacccttgg	cttctgtctg	cctcccagc	acctcagttt	480
ctctaccttc	tcaccctccc	tggcagcctg	caatgagtc	tgtgccagga	accggcggac	540
ctccctgtgg	gctgtgagtc	tcagcagtc	tctactcctg	gccatagctg	gagatgtttc	600
ttttactggc	aaaggaagaa	ggaggcagta	aaggaacagg	gcagcccga	tgtcttccag	660
aagtgaacag	aggccgcagc	tacaccgctc	acaaagttca	ctcatctctg	ggtcccgggtg	720
accccatccc	cccataccct	ccatcctggg	tcctggggcc	ccaaagctct	gaggccctagg	780
agactgcgct	gtctcgtggg	ttgcctactc	ctacaccttt	gtaaagagtc	tcttcattaa	840
aaccctctct	cataaaaaaa	aaaaaaaaaa	a			871

<210> 383
 <211> 881
 <212> DNA
 <213> Homo sapiens

<400> 383						
gaattcggca	cgagggaacc	cagaagatgc	tgctctcct	gatcatctgt	ctcctgcctg	60
ccattgaagg	gaagaactgc	ctccgctgct	ggccagaact	gtctgccttg	atagactatg	120
acctgcagat	cctctgggtg	accacagggc	caccacaga	actttctcaa	agtattcact	180
ccttgttcct	agaggataat	aattttctca	aaccctggta	ccttgatcgt	gaccatttgg	240
aagaagaaac	agccaaattc	ttactcaag	tacaccaagc	cattaaaacg	ttacgagatg	300
ataaaacagt	acttctggaa	gagatctaca	cgcacaagaa	tctctttact	gagagctga	360
ataagatatc	tgatgggctg	aaggagaagg	gagcccacc	cytctccatg	aatgccttcc	420
cggctccatc	tcctacttgc	acccagaaac	cccttggctc	tgtctgcctc	cccagcacct	480
cagtttctct	accttctcac	ctccctggca	gcctgcaatg	agtcctgtgc	caggaaccgg	540
cggacctccc	tgtgggctgt	gagtctcagc	agtgtcttac	tcctggccat	agctggagat	600
gtttctttta	ctggcaaagg	aagaaggagg	cagtaaagga	acagggcagc	ccgcatgtct	660
tccagaagtg	aacagaggcc	gcagctacca	ccgtcacaaa	gttcaatcat	ctctgggtcc	720
cgggtgacccc	atcccccat	acctccatc	ctgggtcctg	gggccccaaagctctgaggc		780
ctaggagact	gcgctgtctc	gtgggtttgc	tactcctaca	cctttgtaaa	gagtcctctc	840
attaaaaccc	ctcttcataa	aaaaaaaaaa	aaaaaactcg	a		881

<210> 384
 <211> 1147
 <212> DNA
 <213> Homo sapiens

<400> 384						
ggcacgagac	ccattgagca	gaaggaggcc	aggtgggaaa	gctcctggga	agagcagcca	60
gactggacac	tgggctgctt	gagtcctgag	tcacaattca	gaattcctgg	gctccctggg	120
tgcattctat	cattccagtt	gaaagtttgc	ttccttccag	tcatgtggct	cttcattcta	180

ctctccttgg	ctctcatttc	agatgccatg	gtcatggatg	aaaagggtca	gagaagcttt	240
gtgctggaca	cggcttctgc	catctgcaac	tacaatgccc	actacaagaa	tcaccccaaa	300
tactggtgcc	gaggctattt	ccgtgactac	tgcaacatca	tcgccttctc	ccctaacagc	360
accaatcatg	tggccctgaa	ggacacaggg	aaccagctca	ttgtcactat	gtcctgcctg	420
aacaaagaag	acacgggctg	gtactgggtg	ggcatccagc	gggactttgc	cagggatgac	480
atggatttta	cagagctgat	tgtaactgac	gacaaaggaa	cctggccaat	gactttggtc	540
tgggaaagac	tatcaggcac	aaaaccagaa	gctgcaaggc	tcccaaagtt	gtccgcaagg	600
ctgaccgctc	caggacgtcc	attctcatca	tttgatact	gatacgggt	ttgggaatca	660
tctctgtaat	cagtcatttg	acaaaaagga	ggagaagtca	aaggaaataga	agggtaggca	720
acactttgaa	gcccttctcg	cgtgtcctga	ctccaaagga	aatggctcct	actgaacaga	780
tgtgactgaa	gattttttta	atttagttca	taaagtgatg	ctacaacaga	ataatcacca	840
tgacaactgg	ccccacacct	cagagactga	ttctgatctc	ccaggaattc	tgaagggtccc	900
tctatccttg	acaacaatca	tttgagcca	ggtagcaacg	gcagtagtca	gaggagctat	960
gatagaccac	acccaagcaa	ggctgccctc	aaataacatc	tcaagatctt	agttcttatg	1020
cattccatca	gtcagaagtg	aagaagaggt	ggagaatd	gattggggac	caggaaatca	1080
cttgtatttt	gttagccaat	aaattcctag	ccagtgttga	atgaaaaaaaa	aaaaaaaaaa	1140
aaaaaaa						1147

<210> 385
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (418)..(418)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (803)..(803)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (816)..(816)
 <223> n equals a,t,g, or c

<400> 385	
acccattgag	cagaaggagg
actgggctgc	ttgagtcctg
atcattccag	ttgaaagttt
ggctctcatt	tcagatgccca
acggcttctg	ccatctgcaa
cgaggytatt	tccgtgayta
gtggccctga	aggacacagg
gacacgggct	ggatctgggt
acagagctga	ttgtaactga
gacctatcag	gcaacaaaac
gtccaggagc	gtccattctc
taatcagtc	tttgaccaaa
tgaagccctt	ctcgcggtgc
tgaagwtttt	tttaattttag
caactggccc	cacacctcag
atccttgaca	acaatcattt
agaccacacc	caagcaaggc
tccatcagtc	agaagtgaag
ccaggtggga	aagaggtgga
aagctcctgg	gaagagcagc
gaagagcagc	cagactggac
gggctccctg	ggtgcattct
ctcttcattc	tactctcctt
tgtgctggac	
atactggtgc	
caccaatcat	
gaacaaanaa	
catggatttt	
gtctgggaaa	
caagctgacc	
atcactctg	
ggcaacactt	
cagatgtgac	
tcctactgaa	
aacagawtaa	
aggaccctct	
gtagtcagag	
gagctatgat	
tcttatgcat	
gaaatcactt	

gtatTTTgtt agccaataaa ttcctagcca gtgttgaatg aaaaaaaaaa aaaa 1134

<210> 386
<211> 1598
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1067)..(1067)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1069)..(1069)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (1577)..(1577)
<223> n equals a,t,g, or c

<400> 386
aggaaagaac aaaggttatt tcctggagaa aagacaatTT attcaacacc aacragggac 60
tcatcatatg ggcacaactc tgggtgcctt ctaTggagaa aacctcaagt aaagTTTTat 120
tctgcctttr aaaatgcttc caaaaagtaga ccctgtcccc acacaggTca agactacaga 180
gaaggctttg tagaaatgtg tcacctatgt acacctgcta cttacacatt tcctcttttg 240
gaaaaatgag atacttagaa taacargaaa attaagacat actggcctgg tgccagcaga 300
tggcttttct atagacaaac taggttagtg tggaagatat aggttaaaat aaactatgct 360
gttttatTTa tcttcccaac ctgattggca gctagacttt tttagggTct catttaatgg 420
ccctgttttt ttcattatta tatttaatga tagggcagga tttcgtatgc aagctctTgt 480
ttctcaggct gcctgcagaa gaagtcgcta taaattatct gttgtctaca tggTacaagg 540
cccattgact catctgatgc ttgttttgtt aatttcttta atatttttat cacggggcag 600
tgggagggct tgggctttta gccacagctg ttttaagact tctgatctcc tgccctgcag 660
gaataggTgg gaagtcattg aattttttaca ctatagtaat ttgcattccc acataagttt 720
gagtgttacg aaaacattcc tttaaagggga tctgtgctac acaaaatatg ccaggacctc 780
acagacaaag ccattgctag aaatgtcatt ccaatgatca gatctggaaa caggctgccca 840
taaccacttt tcttcttTgt agactcagct cacctgtata tttaaactgt tcttggcatc 900
ttgaaacacc tattttctact caggTactca ttgtcctgTt actgattcac ctttctgacT 960
cttttcaacc agttttcccc caaggggggga aattttactt aacctctagt atttgaacaa 1020
ctcaatattt gaattgtTgc cccatttgct tttacctgta ctgtatncnt ggtcatctca 1080
aatggcgtct aaaccagct actttgcatt ccagaagTtt ccattccctc caatccacc 1140
taatttttca tctgtcctag ttactggctc tttcttcatg tcttatttct cttgctttgg 1200
gagcttaaaa gattttacaa gacctaatTT tgggttcctt ccttggagcc atagttaccc 1260
tgccaagaag agtagaaaat gggttcaact cctgtttcgc tccaccaaca cctctgtgag 1320
tctcatcatc agctgagTga tgatgcctta caggTtgcat agcactggaa ctttccTaga 1380
gtaacggctc tgctgccagg gtttctctgg gctcattctt ccactgactt aattatgacT 1440
tatgcctaac agagccccag tacaactatt ttgcagaatg gctgttacct tagaattact 1500
atagcacata ttgagatata gttgtactcc ctagtagata ggaactgac ccaacaataa 1560
actttgataa taaaganaaa aaaaaaaaaa actcgtag 1598

<210> 387
<211> 530
<212> DNA
<213> Homo sapiens

<220>


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<221> misc_feature
<222> (517)..(517)
<223> n equals a,t,g, or c

<400> 387
gcctggcaga gagactctga aatgagggat tagaggtgtt caaggagcaa gagcttcagc      60
ctgaagacaa gggagcagtc cctgaagacg cttctactga gaggtctgcc atggcctctc      120
ttggcctcca acttgtgggc tacatcctag gccttctggg gcttttgggc aacttggttg      180
ccatgctgct cccagctgg aaaacaagtt cttatgtcgg tgccagatt gtgacagcag      240
ttggcttctc caagggcctc tggatggaat gtgccacaca cagcacaggc atcaccagc      300
gtgacatcta tagcaccctt ctgggcctgc ccgtgacat ccaggctgcc caggccatga      360
tggtgacatc cagtgcgaatc tcctccctgg cctgcattat ctctgtggtg ggcatgagat      420
gcacagtctt ctgccaggaa tcccagagcca aagacagagt ggcggtagca ggtggagtct      480
ttttcatcct tggaagcctc ctgggattca ttcctgntgc ctggaatctt      530

<210> 388
<211> 1046
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)..(14)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (33)..(33)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (441)..(441)
<223> n equals a,t,g, or c

<220>
<221> misc_feature
<222> (460)..(460)
<223> n equals a,t,g, or c

<400> 388
gagaagtcag cctngcagag agactctgaa atnagggatt agaggtgttc aaggagcaag      60
agcttcagcc tgcaagacaa gggagcagtc cctgaagacg cttctactca ccactggtgc      120
ctgacagcat gaaatttgag attggagagg ctctttactt gggcattatt tcttccctgt      180
tctccctgat akctggaatc atcctctgct ttcctgctc atscagaga aatcgctcca      240
actactacga tgctaccaa gcccaacctc ttgccacaag gagctctcca aggctgtgtc      300
aacctcccaa agtcaagagt gagttcaatt cctacagcyt gacagggtat gtgtgaagaa      360
ccaggggcca garctggggg ktggctgggt ctgtgaaaaa cagtggacag caccgccagg      420
ccacaggtga gggacattac nactggatcg tgtcagaagn tgctgctgag gatagactga      480
ctttggccat tggattgagc aaaggcagaa atgggggcta gtgtaacagc atgcaggttg      540
aattgccaag gatgctcgcc atgccagcct ttctgttttc ctcaccttgc tgstcccctg      600
ccctaagtcc ccaaccctca acttgaacc ccattccctt aagccaggac tcagaggatc      660
cctttgccct ctggtttacc tgggactcca tccccaaacc cactaatcac atcccactga      720
ctgaccctct gtgatcaaaag accctctctc tggctgaggt tggctcttag ctcatgtctg      780
gggatgggaa ggagaagcag tggcttttgt gggcattgct ctaacctact tctcaagtt      840
ccctccaaag aaactgattg gccctggaac ctccatccca ctcttggtat gactccacag      900
tgtccagact aatttgtgca tgaactgaaa taaaaccatc ctacggtatc cagggaacag      960

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aaagcaggat gcaggatggg aggacaggaa ggcagcctgg gacattttaa aaaaaaaaaa 1020
aaaaaactcg aggggggggc ægtac 1046

```

```

<210> 389
<211> 819
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (786)..(786)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (819)..(819)
<223> n equals a,t,g, or c

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```

<400> 389
aattcggcac gagctcaaag agtaagaatc caagtgtgtg acattacata gctttgcatc 60
tatggaaacc taaatcataa ttgtttccac tgcccaatta tgttcctttt cataacattt 120
actattctgg ctatatttat catagaacct aggaacctta gagttgacct gaatctaatt 180
aaatttcaga cctcctggcc aaagacccta gtggaagagc aaaactaaat caacatatta 240
ccaatctcaa gtatttctct gaggaccag accactgact ttttgttgtc attttcaggt 300
tgatcctata actgtatgtt ctacaatatc tgtgctccac cagctcagtg aggaatcaac 360
ggaatatcaa aagtaaatat tggtcaccat ataccttttg gtactatgct acgaaataat 420
tggctgagga actgtttcat attaaagaaa agctaaaagc aatgtgtgat cttagattag 480
acctatgatt ggaatgatg tatattttat atacaaaata ttgaggaaat tgacaaaatt 540
taaatacaga atatggatta gataatagga atgtatcaag gtcaatattt aaaaagataa 600
tttcaacttt tattttatcc agtgggtaca tgtgcagact ttgttttaca tagtaccocaa 660
cagtttttca acgcttatcc cccaccctct agtaatctgc agwgcwtatt attgycatct 720
tcgtggctat tgtacatggg atccatactt gattttgctc tcaacatgaa cattattggg 780
gtaganaaat gccactaagt tttkgtacgt tggcttttn 819

```

```

<210> 390
<211> 501
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(2)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc_feature
<222> (12)..(12)
<223> n equals a,t,g, or c

```

```

<400> 390
nncccccaa tnatatTTTT ccaaattaat tccaacatag gaaggattcc accttcctag 60
tatgttttca aattgtttca aacctgacct ctttttgatt gctctacctt ccaaaagaaa 120
agaagggaac actaatTTTt tTycctgatt tacttcattg ttttcttctg ttagattaac 180
tttacctata aaagattgtc tcttgacttt atatatatat aatgtgtgt gtgtgtgtgt 240
gtgtgtgtgt gtgtgtgtgt gtgtgtgtat ttgaagagga catgtgcctc cataaaagga 300
aataaaatga gagaatacat tattgatTTt gtgaaatcaa aatatttgaa ttatggTTt 360
tcaatatTca aaaactcttg cagtttctgt acttatttct tctgatgcat agagtttctg 420

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ggactacata	tgttttcacaa	ccaaagatat	ccacttgaaa	taaaaacatt	ataaagttaa	480
aaaaaaaaaa	aaaaactcga	g				501

<210> 391
 <211> 675
 <212> DNA
 <213> Homo sapiens

<400> 391						
ggcagcagct	gctcttcttc	ttcaacatgc	tcttctgggt	gtttccatg	gtgatggtgg	60
ctgtgggtgt	ctacgctcgg	ctaatagaagc	atgcagttct	ccctctgcct	caccgctgtg	120
ttcctgctgc	agctggccgc	tgggatccctg	ggcttcgtct	tctcagacaa	ggctcgaggg	180
aaagtgagtg	agatcatcaa	caatgccatt	gtgcactacc	gagatgactt	ggatctgcag	240
aacctcattg	attttggcca	gaaaaaggta	tgggtcagcc	agtggctctg	gggactgtgg	300
gtaaaagtga	atgtcatccc	aagagatgcc	tcacctctta	tgcctgtggg	gctcttcatt	360
acctgccagg	taatggcttc	tgggaagggg	tttggcaaaa	aaagcacacg	tagcagagtg	420
ctttaaatgt	acttttaaa	acacagaaca	gtataatag	taatctactg	tgttataaat	480
ggttacttac	agggggtgag	gaactgggca	gattcttgaa	tattacctct	tcaaaagtga	540
catttttaggc	tgggtccaaag	ggagtgaagt	atctcatttg	attgttcaca	gtcagctaca	600
gatccaactc	cttgtttctac	tctttccccc	cttctcagtg	ctgcacttga	ctagactaaa	660
aaaaaaaaaa	aaaaa					675

<210> 392
 <211> 884
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (873)..(873)
 <223> n equals a,t,g, or c

<400> 392						
ggccgacgcc	tgggggtgtg	agctgcccc	cccccacccc	gtgggagagt	ggatcaagaa	60
gaaaaaacct	ggcccagag	tcgaagggcc	gccccaggcc	aacagaaatc	acccggcctt	120
acctctgtcc	ccacccttac	cttcccccc	ataccgcccc	ctgcttgggt	tcccacccca	180
gcgcttgccg	ctgctcccg	tectgtcccc	acagcctcct	cctcccatc	tccatcacca	240
gggaatgcc	cggttccac	aggttcccc	agatgcctgt	tttctctcag	accatacttt	300
ccagtcggat	caattctatt	gccattcaga	tgtccctcca	tcagcccatg	caggtttctt	360
cgtcgaagac	aattttatgg	ttggtcctca	gctgcctatg	cccttcttcc	ccacaccccg	420
ttatcagcgg	cctgccccag	tggtagatag	gggttttggc	aggtatcgtc	cccgtggccc	480
ctatacgccc	tggggacagc	ggcctcgacc	ttcaaagaga	agggccccag	ccaatcctga	540
gccaaggcct	caatagacgg	acctaggcct	tatttctctt	ttatgaacat	ggatttgaca	600
gatctgacac	ttcctttcca	ttgcttggcc	tgaacagact	gaccttggtt	acttaagctc	660
ggagtccatg	cctcgtcttc	cttttgttca	ttgctgttac	caagaaagcc	aaggaagagc	720
agcctgactc	attcttcttg	gctgcagcct	cttccccact	tcctgggagt	gacccagcgt	780
tattcctgcc	tcctcactcc	tattctcttt	gcctttgtgt	aaaaataaaa	tggaaataaa	840
caagttgcac	agaaaaaaaa	aaaaaaaaaa	aancccaagg	ggg		884

<210> 393
 <211> 3306
 <212> DNA
 <213> Homo sapiens

<400> 393						
ccacgcgtcc	ggcccagggc	tgtctgtctc	caaagcccaa	ccataactca	catccccatt	60
ccagctcctc	tgggtgagtc	tgttccccct	cagcctcact	ttccttatcc	tgtcaaaaga	120

aggatttggga	atgacttaag	ttattcaagc	aacaaacact	tactgaattg	tcttgccact	180
tccaggggtga	cattatggag	ttctgtgatt	ctgcaagagg	ccagagggga	caaggtcaag	240
tgggtgttca	cctggccccc	catcttccct	ctgtgcgtca	ccattcccaa	ctgcagcaag	300
ccccgtggg	agaagttctt	atggtcacc	ttcatcaacg	ccacgctgtg	gatcgctgtg	360
ttctcctaca	tcatggtgtg	gctggtgact	attatcggat	acacacttgg	gatcccggat	420
gtcatcatgg	gcattacttt	cctggcagca	ggacaagtgt	tccagactgc	atggccagcc	480
taattgtggc	gagacaaggc	cttggggaca	tggcagtctc	caacaccata	gagcaacgt	540
gtttgacatc	ctggtaggac	ttggtgtacc	gtggggcctg	cagaccatgg	ttgttaatta	600
tggatcaaca	gtgaagatca	acagccgggg	gctgggtctat	tccgtgggtcc	tgttgctggg	660
ctctgtcgct	ctcacccgtc	tcggcatcca	cctaacaacg	tggcgactgg	accggaagct	720
gggtgtctac	gtgctgtt	tctacgccat	cttctgtgc	ttctccataa	tgatagagtt	780
taacgtcttt	accttcgtca	acttgccgat	gtgccgggaa	gacgattagc	gctgagtcgc	840
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cccaccacag	gtctctcctg	cataggcagc	cactgtccgt	tctttccaac	actggaagga	960
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tgagctgcca	accacggaga	tgtgccaaagc	tctgcacac	tttagtcaga		1140
aggactttctg	catgcagttt	gtctttctgt	tctgcaggca	gcttcagaat	tgaggtcatt	1200
tgtgagcaca	agatctcata	gggcaggtgc	aaaataggaa	tggtgttctc	aagtgtcacc	1260
tccagcccag	aggtggttcc	ttaggcagca	tgtgtcctctg	ggagcctctg	acttttgctg	1320
gaagcaccca	cagtttgga	ggggcaagac	ctcaacctgt	tgggttttag	ggcccatgat	1380
ggcagacatt	ctaccctttt	tcctggaaaa	actggaagaa	tgaaaaataat	ttttttctgt	1440
ggaagagaga	aaatgagtga	atattcttct	cactttttatt	gatgcattca	gagaataagc	1500
aatgaaatat	taaaaaatga	aacatcatat	aggtcatcat	acttgaaaat	tatcattcca	1560
tatgaaagga	tcatgataca	cacaaaaaaa	gtaatgatcg	taaagacaca	aatcctctgt	1620
atgccatctt	gcattggcac	tgaggtgttt	ggtttggaat	agggaaaaag	agacaggatc	1680
tcgctgtgtt	ccccaggtag	gtcttgaact	cctggcctca	agtgatectc	ctgccttgac	1740
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<211> 2194

<212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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 <223> n equals a,t,g, or c

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 <213> Homo sapiens

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<400> 396

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<210> 397
 <211> 2924
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<400> 397

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 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (458)..(458)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (501)..(501)
 <223> n equals a,t,g, or c

<400> 398	
tgcacccacg	cgctccggcac gktcgccagg caccgctgac cgaggcctgc tgggattcca 60
gaattggaga	gggaggcacc atgaagactc tcctgctgct ggtggggctg ctgctgacct 120
gggagaatgg	acgggttctg ggagaccaga tggctctcaga cactgagctc caggaaatgt 180
ccaccgaggg	gagtaagtac attaatcggg aaattaaaaa tgctctcaag ggggtgaagc 240
agataaagac	actaatagaa caaacaaacg aggagcgcaa atccctgtc accaacttgg 300
aagaagccaa	gaagaagaaa gaggatgccc tgaatgacac caaggattca gaaatgaagc 360
tgaaggcgtc	cccaggggtt ttcaatgnca cccttgatgg ccctctggga ggantttaag 420
cccttccttg	aaaacagacc tgtattgaag ttctaagncc cgagtcttcc agaagccagc 480
cacaaggctt	ggtttggcca nccaggtttg aaggagtt 518

<210> 399
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (388)..(388)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (414)..(414)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (458)..(458)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (501)..(501)

<223> n equals a,t,g, or c

<400> 399

tcgacccacg	cgtccggcac	gktcgccagg	caccgctgac	cgaggcctgc	tgggattcca	60
gaattggaga	gggaggcacc	atgaagactc	tcctgctgct	ggtggggctg	ctgctgacct	120
gggagaatgg	acgggttctg	ggagaccaga	tggctctcaga	cactgagctc	caggaaatgt	180
ccaccgaggg	gagtaagtac	attaatcggg	aaattaaaaa	tgctctcaag	ggggtgaagc	240
agataaagac	actaatagaa	caaacaaacg	agagcgcaa	atccctgctc	ascaacytgg	300
aagaagccaa	gaagaagaaa	gaggatgccc	tgaatgacac	caaggattca	gaaatgaagc	360
tgaaggcgtc	cccaggggtt	ttcaatgnca	cccttgatgg	ccctctggga	ggantttaag	420
cccttccttg	aaaacagacc	tgtattgaag	ttctaagncc	cgagtcttcc	agaagccagc	480
cacaaggctt	ggtttggcca	nccaggtttg	aaggagtt			518

<210> 400

<211> 1670

<212> DNA

<213> Homo sapiens

<400> 400

ccacgcgtcc	ggcacggtcg	ccaggcaccg	ctgaccgagg	cctgctggga	ttccagaatt	60
ggagagggag	gcaccatgaa	gactctcctg	ctgctgggtg	ggctgctgct	gacctgggag	120
aatggacggg	ttctgggaga	ccagatggtc	tcagacactg	agctccagga	aatgtccacc	180
gaggggagta	agtacattaa	tcgggaaatt	aaaaatgctc	tcaagggggg	gaagcagata	240
aagacactaa	tagaacaac	aaacgaggag	cgaaaatccc	tgctcaccaa	cttgggaagaa	300
gccaagaaga	agaaagagga	tgccctgaat	gacaccaagg	attcagaaat	gaagctgaag	360
gcgtcgagg	gggtgtgcaa	tgacaccatg	atggccctct	gggaggagtg	taagccctgc	420
ctgaaacaga	cctgggggaa	gggtctacgc	ccgagtctgc	agaagcagca	cagggctggt	480
tggccaccag	gttgaggagt	tcctgacca	gagttctccc	ttctacttct	ggattaatgg	540
cgaccgcctc	gactccctgc	tggagaacga	ccggcagcag	acccacgccc	tggatgtcat	600
gcaggacagt	ttcgaccggg	catccagcat	catggatgag	ctgttccagg	acagattctt	660
caccctgtag	gccagagacc	ctttccactt	ctcacccttc	agctcattcc	agcggagcc	720
ttttttcttc	aatatcaagc	accgctttgc	ccggaacata	atgcctttcc	ctggctacca	780
gcccttgaat	ttccacgaca	tgtttcagcc	cttcttcgac	atgatacacc	aggctcagca	840
ggccatggat	gttaacctgc	acagactccc	ccactttcca	atggaattca	cagaagaaga	900
caaccaggac	ggcgccgtgt	gcaaggagat	ccgtcacaac	tccacagggt	gcctgaagat	960
gaaggaccag	tgtgaaaagt	gccgggagat	cttgtctgtg	gactgttcgt	ccaacaaccc	1020
cgctcaggtc	cagctgcgac	aggaacttaa	taattccctc	cagattgcag	agaagttcac	1080
caagcttgta	cgacgagctg	ctgcagtcct	accaggagaa	gatgttcaacac	gtcctccc	1140
tgctgaagca	gctggacgag	cagtttagct	gggtgtccca	gctggcgaat	ctcactcaga	1200
ctgaggaccc	gttctatctc	caggtcacga	cggtgagttc	ccagacttct	gactccagtg	1260
ctccctctgg	cgctactaag	gtggttgtag	agctctttga	ttccgacccc	atcaccgtga	1320
tcctcccaga	agaactctcc	aggaacaatc	ctaaatttat	ggagaccgtg	gcagagaaaag	1380
cccttcaggga	ataccgccag	aagagccggg	aggagtgaga	tgggaacact	gcctctccac	1440
atggcagggtg	tctgagttct	gtcgcccccg	cgatgagcga	taggccccta	gagagagctc	1500
tgcatgtcac	cgagtgaccg	ggccttcctt	gaggccctcc	tgtccctca	ccccgcctgt	1560
cctccctctg	gactctgcat	tgtaacaccg	tgttcactga	tcatgggaag	aactcctgtg	1620
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<210> 401
 <211> 606
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (591)..(591)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (593)..(593)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (600)..(601)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (605)..(605)
 <223> n equals a,t,g, or c

<400> 401
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 tcttcccatg atcagtgaac acggtgttac aatgcagagt ccagagggag gacaggcggg 120
 gtgaggggac aggagggcct caaggaaggc ccggtcactc ggtgacatgc agagctctct 180
 ctaggggcct atcgtctatc gcgggggcga cagaactcag acacctgcca tgtggagagg 240
 cagtgttccc atctcactcc tcccggctct tctggcggta ttctgaagg gctttctctg 300
 ccacggtctc cataaattta ggattgttcc tggagaggtc ttctgggagg atcacggtga 360
 tgggggtcga atcaaagagc ttcacaacaa ccttagtgac gccagagggg gcaactggagt 420
 cagaagtctg ggaactcacc gtcgtgacct ggagatagaa cgggtcctca gtctgagtga 480
 gattcgccag ctgggacacc cagctaaact gtcgtgccag ctgcttcarc aggragracg 540
 wgttgaacat cttctcctgg taggactgca gcagctcgks gtgggtgcct nanacaacan 600
 nctana 606

<210> 402
 <211> 841
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (20)..(20)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (29)..(29)
 <223> n equals a,t,g, or c

<220>
 <221> misc_feature
 <222> (34)..(34)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (57)..(57)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (101)..(101)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (703)..(703)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (779)..(779)

<223> n equals a,t,g, or c

<400> 402

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tagaccgggt	octcagtctg	agtgagattc	gccagctggg	nccacccagc	taaactgctt	120
cgtccagctt	gcttcagcag	gaagacgtgt	tgaacatctt	ctcctggtag	gactgcagca	180
gctcgtcgta	caagcttggt	gaacttctct	gcaatctgga	gggaattatt	aagttcctgt	240
cgcagctgga	cctgagcggg	gttgttggac	gaacagtcca	cgacaagat	ctcccggcac	300
ttttcacact	ggtccttcat	cttcaggcac	cctgtggagt	tgtgacggat	ctccttgcac	360
acggcgccgt	cctggttgtc	ttcttctgtg	aattccattg	gaaagtgggg	gagtctgtgc	420
aggttaacat	ccatggcctg	ctgagcctgg	tgtatcatgt	cgaagaaggg	ctgaaacatg	480
tcgtggaaat	tcaagggctg	gtagccaggg	aaaggcatta	tgttcggggc	aaagcgggtg	540
ttgatattga	agaaaaaagg	cctccgctgg	aatgagctga	agggtgagaa	gtgsaaaggg	600
tcctgggcct	cacgggtgaa	gaatctgtcc	tggaaacagct	catccatgat	gctgggatgcc	660
cggtcgaaac	tgtcctgcat	gacatccagg	gcgtgggct	gcnaccgggc	gttctccagc	720
agggagtcga	tgcggtcgcc	attaatccag	aagtagaagg	gagaactctg	gttcagganc	780
tcctcaacct	ggtggccaac	cagccctgtg	ctgcttctgc	agactcgggc	gtagaccctt	840
c						841

<210> 403

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (23)..(23)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (31)..(31)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (45)..(45)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (829)..(829)

<223> n equals a,t,g, or c

<220>

<221> misc_feature

<222> (860)..(860)

<223> n equals a,t,g, or c

<400> 403

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ttacttcata	tccgggggaa	tgtggctttg	tgttcaccaa	ggaggcctca	cttgagatca	180
gggacatgct	gctggccaat	aaggggccag	ctgccgcccc	tgctggtgcc	atagccccat	240
gtgaggtcac	tgtgccagcc	cagaacactg	gtctggggcc	cgagaagacc	tccttcttcc	300
aggcttttagg	catcaccact	aaaatctcca	gaggaacctat	tgaaatcctg	agtgatgtgc	360
agctgattaa	gaccggagac	aaagtgggag	ccagtgaagc	cacactgctg	aacagtctga	420
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acaaccctga	agtgccttgac	atcacagagg	aaactctgca	ttctcgcttc	ctggagggtg	540
tccgcaatgt	tgccagcgta	tgtctgcaga	taggttaccc	aactgtggca	tcagtgtccc	600
attctatcat	caatggata	aagcgggtcc	tggctttgtc	tgtggagact	gattacacct	660
ttccacttgc	tgaaaaggtc	aaggccttct	tggctgatcc	atctgcattt	gtggctgctg	720
cccctgtggc	cgctgccacc	actgctgcac	ctgctgctgc	tgacagcccc	gccaaagtgt	780
aagcaaagga	agagtcggag	gaawcggatg	agagkattkt	camttcganaat	cagcaaaa	840
gcaacaattc	cagccagttt	attgtgaa				868

<210> 404

<211> 1540

<212> DNA

<213> Homo sapiens

<400> 404

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tcctcatgta	cagagcaatt	gacagctttc	cccggtggcg	ttcctacttc	tatttcatca	120
ctctcatatt	cttccctgcc	tggcttgtga	agaacgtggt	tattgctggt	atcattgaaa	180
catttgcaga	aatcagagta	cagtttcaac	aaatgtgggg	atcgagaagc	agcactacct	240
caacagccac	caccagatg	tttcatgaag	atgctgctgg	agggtggcg	ctggtagctg	300
tgggatgtca	acaagcccca	gggacgcgcc	ccagcctgcc	tccaggtgca	gtacaatgac	360
atttttaaaa	atcgcccagc	aaaggtcctt	gaattttatt	tcattccaaga	aaatccacag	420
ctcttttaag	tctagatttg	tccaaattta	aaatcctgaa	gttagagatg	gtatttctact	480
ccttctctta	ttcccaggac	ctagcttttt	ttttttaaca	tacacaatag	ggatttgata	540
agtttctgat	ggctgcaggc	atgtaagagc	atttcagtgg	tattgaatca	atgaagaatt	600
ttgttgacat	gtgaaatctt	ataaaaaatat	tctttaccga	aggactgagt	tatgtggcag	660
tgggcaaat	cattgtttca	tacctcccct	agtaactggg	aaaatatgt	taatacatag	720
tctctctggt	tttctgcatt	tgggaagctt	cagaggaaca	taatgtagag	gtgtttcttt	780
agcaaagtgc	actgatagca	aacataagga	ttgcagggtg	ggcctgagag	tcctcatgag	840
atagattctc	acagtgatta	gaagatggag	tctcacgtcc	ctgcctgtga	actttctgga	900
aaaaccatct	tctccaagct	gccattgaca	acaatatgga	taacaataat	aacaataagg	960
ccaataaac	tcctttatct	cttcttcagg	gggccatact	gacatcttct	cttctctggg	1020

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ttccctcct tgccccctaa atatccagta actcattcaa aataatgtca ccttaccaag 1080
agcagcacc ctaactttcc ataataatatt cactttc#t ttccctccaa gcagcccact 1140
cgtaggaccg tagaattgat tcttccacct ggagaatttt attttcttta gcctttttgg 1200
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ctcataatth ggagaagtgt tcacatctgc cgtgggatga gactgtatct cttttctttc 1320
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taaaattgta ctctgagcca ttactgggtg gctatgttta tatggccatt ttaccataga 1440
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atacttaagg taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1540

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<210> 405
 <211> 207
 <212> PRT
 <213> Homo sapiens

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<400> 405
Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
  1             5             10             15

Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
      20             25             30

Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Leu
      35             40             45

Pro Ala Cys Leu Asn Pro Val Leu Tyr Val Phe Phe Asn Pro Lys Phe
      50             55             60

Lys Glu Asp Trp Lys Leu Leu Lys Arg Arg Val Thr Lys Lys Ser Gly
      65             70             75             80

Ser Val Ser Val Ser Ile Ser Ser Gln Gly Gy Cys Leu Glu Gln Asp
      85             90             95

Phe Tyr Tyr Asp Cys Gly Met Tyr Ser His Leu Gln Gly Asn Leu Thr
      100            105            110

Val Cys Asp Cys Cys Glu Ser Phe Leu Leu Thr Lys Pro Val Ser Cys
      115            120            125

Lys His Leu Ile Lys Ser His Ser Cys Pro Ala Leu Ala Val Ala Ser
      130            135            140

Cys Gln Arg Pro Glu Gly Tyr Trp Ser Asp Cys Gly Thr Gln Ser Ala
      145            150            155            160

His Ser Asp Tyr Ala Asp Glu Glu Asp Ser Phe Val Ser Asp Ser Ser
      165            170            175

Asp Gln Val Gln Ala Cys Gly Arg Ala Cys Phe Tyr Gln Ser Arg Gy
      180            185            190

Phe Pro Leu Val Arg Tyr Ala Tyr Asn Leu Pro Arg Val Lys Asp
      195            200            205

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<210> 406
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 406
 Met Ala Gly Pro Arg Ala Ser Thr Gly Pro Arg Pro Xaa Cys Leu Val
 1 5 10 15
 Leu Phe Leu Phe Asn Phe Ile Phe Cys Phe Met Ser Val Cys Pro Pro
 20 25 30
 Thr Pro Thr Pro Phe Ser Val Lys Trp Gly Ala Leu Gly Glu Ser Leu
 35 40 45
 Leu Pro Pro Ser Leu Ser Gln Asp Leu Pro Pro Arg His Gln Pro Ser
 50 55 60
 Leu Trp Thr Arg Gln Arg Ala Asp Arg Val Gly Arg Gly Leu Arg Val
 65 70 75 80
 Ala Arg Ala Ser Pro Pro Ala Asn Gly Pro Leu Leu Arg Pro Phe Val
 85 90 95
 Ser Pro Cys Pro Phe Leu Lys Gln Asn Ala Leu Val Cys Lys Pro Leu
 100 105 110
 Asp Ala

<210> 407
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 407
 Met Arg Leu Cys Ser Phe Thr Lys Val Pro Met Asn Leu Phe Leu Asn
 1 5 10 15
 Val Ile Leu Leu Lys Phe Tyr Asn Phe Leu Phe Ser Leu Ile Leu Gly
 20 25 30
 Lys Ser Cys Leu Ala Ser Leu Gly Leu Cys Lys Asn Asn Lys Cys Leu
 35 40 45
 Ser

<210> 408
 <211> 218
 <212> PRT
 <213> Homo sapiens

<400> 408
 Met Gly Ser Ala Ala Leu Glu Ile Leu GlyLeu Val Leu Cys Leu Val
 1 5 10 15
 Gly Trp Gly Gly Leu Ile Leu Ala Cys Gly Leu Pro Met Trp Gln Val
 20 25 30
 Thr Ala Phe Leu Asp His Asn Ile Val Thr AlaGln Thr Thr Trp Lys
 35 40 45
 Gly Leu Trp Met Ser Cys Val Val Gln Ser Thr Gly His Met Gln Cys
 50 55 60
 Lys Val Tyr Asp Ser Val Leu Ala Leu Ser Thr Glu Val Gln Ala Ala
 65 70 75 80
 Arg Ala Leu Thr Val Ser Ala Val Leu Leu Ala Phe Val Ala Leu Phe
 85 90 95
 Val Thr Leu Ala Gly Ala Gln Cys Thr Thr Cys Val Ala Pro GlyPro
 100 105 110
 Ala Lys Ala Arg Val Ala Leu Thr Gly Gly Val Leu Tyr Leu Phe Cys
 115 120 125
 Gly Leu Leu Ala Leu Val Pro Leu Cys Trp Phe Ala Asn Ile Val Val
 130 135 140
 Arg Glu Phe Tyr Asp Pro Ser Val Pro Val Ser Gln Lys Tyr Glu Leu
 145 150 155 160
 Gly Ala Ala Leu Tyr Ile Gly Trp Ala Ala Thr Ala Leu Leu Met Val
 165 170 175
 Gly Gly Cys Leu Leu Cys Cys Gly Ala Trp Val Cys Thr Gly Arg Pro
 180 185 190
 Asp Leu Ser Phe Pro Val Lys Tyr Ser Ala Pro Arg Arg Pro Thr Ala
 195 200 205
 Thr Gly Asp Tyr Asp Lys Lys Asn Tyr Val
 210 215

<210> 409
 <211> 62
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (16)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (54)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 409
 Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa
 1 5 10 15
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
 20 25 30
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
 35 40 45
 Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu
 50 55 60

 <210> 410
 <211> 122
 <212> PRT
 <213> Homo sapiens

 <400> 410
 Met Cys Tyr Leu Leu Leu Leu Leu Ile Gln Thr Ala Glu Leu Leu Ile
 1 5 10 15
 His Pro Gln Gly Leu Gln Ala Val Ser Asn Gly Glu Ser Ala Leu Lys
 20 25 30
 Gly Thr Arg Pro Thr Phe Ser Ser Pro Phe Ile Leu Val Thr Glu Gly
 35 40 45
 Arg Lys Glu Trp Glu Gly Val Phe Leu Ser Ser Gly Trp Lys Gly Asn
 50 55 60
 Thr Leu Ser Asn Tyr Tyr Ile Ser Leu Val Phe Tyr Tyr Ser Arg Ile
 65 70 75 80
 Leu Gln Pro Tyr Phe Tyr Cys Leu Trp Gly Lys Leu Glu Met Val Thr
 85 90 95
 Leu Ile Arg Ser Val Trp Arg Gly Ile Asn Gly Gly Asp Lys Ile Gln
 100 105 110
 Leu Val Leu Glu Asn Val Lys Val Leu Lys
 115 120

<210> 411
 <211> 91

<212> PRT

<213> Homo sapiens

<400> 411

Met Arg Leu Cys Val Thr Gly Pro Pro Val Phe Phe Phe Phe Leu Asn
1 5 10 15
Phe Phe Phe Phe Leu Cys Val Gly Ala Cys Leu Gly Asp Leu Lys Ile
20 25 30
Ser Arg Leu Val Tyr Leu Cys Lys Ala Cys Leu Arg Leu Glu Tyr Leu
35 40 45
Gly Lys Glu Ser Asp Ser Met Leu Ser Glu Phe Leu Lys Gly Gln Lys
50 55 60
Lys Asn Trp Arg Leu Leu Lys Cys Arg Phe Glu Val Ile Phe Leu Lys
65 70 75 80
Tyr Tyr Phe Gly Phe Cys Asp Ile Val Lys Asn
85 90

<210> 412

<211> 50

<212> PRT

<213> Homo sapiens

<400> 412

Met Leu Thr Tyr Leu Pro Arg Trp Cys Phe Leu Ser Leu Pro Pro Pro
1 5 10 15
Cys Cys Gly Ala Ala Ser Cys Thr Met Met His Ile Gln Ile Ile Leu
20 25 30
Asn Thr His Ile Leu Ile Glu Arg Phe Leu Gly Phe Leu Leu Asn Gln
35 40 45
Val Tyr
50

<210> 413

<211> 446

<212> PRT

<213> Homo sapiens

<400> 413

Met Leu Leu Gly Leu Leu Met Ala Ala Cys Phe Thr Phe Cys Leu Ser
1 5 10 15
His Gln Asn Leu Lys Glu Phe Ala Leu Thr Asn Pro Glu Lys Ser Ser
20 25 30
Thr Lys Glu Thr Glu Arg Lys Glu Thr Lys Ala Glu Glu Glu Leu Asp

35	40	45
Ala Glu Val Leu Glu Val	Phe His Pro Thr His	Glu Trp Gln Ala Leu
50	55	60
Gln Pro Gly Gln Ala Val	Pro Ala Gly Ser His	Val Arg Leu Asn Leu
65	70	75 80
Gln Thr Gly Glu Arg Glu	Ala Lys Leu Gln Tyr	Glu Asp Lys Phe Arg
	85	90 95
Asn Asn Leu Lys Gly Lys	Arg Leu Asp Ile Asn	Thr Asn Thr Tyr Thr
	100	105 110
Ser Gln Asp Leu Lys Ser	Ala Leu Ala Lys Phe	Lys Glu Gly Ala Glu
	115	120 125
Met Glu Ser Ser Lys Glu	Asp Lys Ala Arg Gln	Ala Glu Val Lys Arg
	130	135 140
Leu Phe Arg Pro Ile Glu	Glu Leu Lys Lys Asp	Phe Asp Glu Leu Asn
145	150	155 160
Val Val Ile Glu Thr Asp	Met Gln Ile Met Val	Arg Leu Ile Asn Lys
	165	170 175
Phe Asn Ser Ser Ser Ser	Leu Glu Glu Lys Ile	Ala Ala Leu Phe
	180	185 190
Asp Leu Glu Tyr Tyr Val	His Gln Met Asp Asn	Ala Gln Asp Leu Leu
	195	200 205
Ser Phe Gly Gly Leu Gln	Val Val Ile Asn Gly	Leu Asn Ser Thr Glu
	210	215 220
Pro Leu Val Lys Glu Tyr	Ala Ala Phe Val Leu	Gly Ala Ala Phe Ser
225	230	235 240
Ser Asn Pro Lys Val Gln	Val Glu Ala Ile Glu	Gly Gly Ala Leu Gln
	245	250 255
Lys Leu Leu Val Ile Leu	Ala Thr Glu Gln Pro	Leu Thr Ala Lys Lys
	260	265 270
Lys Val Leu Phe Ala Leu	Cys Ser Leu Leu Arg	His Phe Pro Tyr Ala
	275	280 285
Gln Arg Gln Phe Leu Lys	Leu Gly Gly Leu Gln	Val Leu Arg Thr Leu
	290	295 300
Val Gln Glu Lys Gly Thr	Glu Val Leu Ala Val	Arg Val Val Thr Leu
305	310	315 320
Leu Tyr Asp Leu Val Thr	Glu Lys Met Phe Ala	Glu Glu Glu Ala Glu
	325	330 335
Leu Thr Gln Glu Met Ser	Pro Glu Lys Leu Gln	Gln Tyr Arg Gln Val

340	345	350
His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu Ile Thr Ala		
355	360	365
His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys Val Leu Gln		
370	375	380
Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr Arg Gln Asp		
385	390	400
Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu Tyr Gln Val		
	405	410
		415
Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly Tyr Phe Gln		
	420	425
		430
Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu Arg		
435	440	445

<210> 414
 <211> 140
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (132)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 414
Met Phe Phe Ser Leu Pro Gly Leu Trp Gln Ile Ala Ser Phe Thr His
1 5 10 15
Asn Leu Ile Phe His Leu Trp Val Trp Gly Ser Glu Ser Gly Glu His
20 25 30
Leu Gln Ser His Asn Asp Pro Asp Thr Arg Gln Gly Gly His Ile Pro
35 40 45
Ile Arg Leu Leu Gly Glu Ser Ser Ala Ser Val Pro Gly Ser Ser Glu
50 55 60
Gly His Thr Gly Gly Pro Ala Pro Pro Arg Val Gly Gly Ser Ala Gly
65 70 75 80

r Trp Pro ~~Eu~~ Leu Gln
95

o Ser Val Met Trp Gly
110

p Gln Ser Lys ~~Ep~~ Pro
125

g Gly
140

, Cys Ala Arg Ala Ser
15

~ Val Ala Ser Leu Gly
30

Glu Asn Tyr Lys Gln
45

, Val Glu His Ile Lys
60

, I~~e~~ Ser Arg Gly Lys
80

Asp Pro Gly Ser Pro
95

Leu Tyr Asp Asn Glu
110

Gly Arg Val Ser Gly
125

Val Lys G~~y~~ Gly Ala
140

Ala Gln Glu Ile Ala
160

Asp Ser Gly Gly A~~d~~
175

Arg Asp His Phe Gly
190

Arg Thr Phe Tyr Asn Gln Ala Ile Met Ser Ser Lys Asn Ile Ala Gln
 195 200 205
 Ile Ala Val Val Met Gly Ser Cys Thr Ala Gly Gly Ala Tyr Val Pro
 210 215 220
 Ala Met Ala Asp Glu Asn Ile Ile Val Arg Lys Gln Gly Thr Ile Phe
 225 230 235 240
 Leu Ala Gly Pro Pro Leu Val Lys Ala Ala Thr Gly Glu Glu Val Ser
 245 250 255
 Ala Glu Asp Leu Gly Gly Ala Asp Leu His Cys Arg Lys Ser Gly Val
 260 265 270
 Ser Asp His Trp Ala Leu Asp Asp His His Ala Leu His Leu Thr Arg
 275 280 285
 Lys Val Val Arg Asn Leu Asn Tyr Gln Lys Lys Leu Asp Val Thr Ile
 290 295 300
 Glu Pro Ser Glu Glu Pro Leu Phe Pro Ala Asp Glu Leu Tyr Gly Ile
 305 310 315 320
 Val Gly Ala Asn Leu Lys Arg Ser Phe Asp Val Arg Glu Val Ile Ala
 325 330 335
 Arg Ile Val Asp Gly Ser Arg Phe Thr Glu Phe Lys Ala Phe Tyr Gly
 340 345 350
 Asp Thr Leu Val Thr Gly Phe Ala Arg Ile Phe Gly Tyr Pro Val Gly
 355 360 365
 Ile Val Gly Asn Asn Gly Val Leu Phe Ser Glu Ser Ala Lys Lys Gly
 370 375 380
 Thr His Phe Val Gln Leu Cys Cys Gln Arg Asn Ile Pro Leu Leu Phe
 385 390 395 400
 Leu Gln Asn Ile Thr Gly Phe Met Val Gly Arg Glu Tyr Glu Ala Glu
 405 410 415
 Gly Ile Ala Lys Asp Gly Ala Lys Met Val Ala Ala Val Ala Cys Ala
 420 425 430
 Gln Val Pro Lys Ile Thr Leu Ile Ile Gly Gly Ser Tyr Gly Ala Gly
 435 440 445
 Asn Tyr Gly Met Cys Gly Arg Ala Tyr Ser Pro Arg Phe Leu Tyr Ile
 450 455 460
 Trp Pro Asn Ala Arg Ile Ser Val Met Gly Gly Glu Gln Ala Ala Asn
 465 470 475 480
 Val Leu Ala Thr Ile Thr Lys Asp Gln Arg Ala Arg Glu Gly Lys Gln
 485 490 495

Phe Ser Ser Ala Asp Glu Ala Ala Leu Lys Glu Pro Ile Ile Lys Lys
 500 505 510
 Phe Glu Glu Glu Gly Asn Pro Tyr Tyr Ser Ser Ala Arg Val Trp Asp
 515 520 525
 Asp Gly Ile Ile Asp Pro Ala Asp Thr Arg Leu Val Leu Gly Leu Ser
 530 535 540
 Phe Ser Ala Ala Leu Asn Ala Pro Ile Glu Lys Thr Asp Phe Gly Ile
 545 550 555 560
 Phe Arg Met

<210> 416
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 416
 Met Val Gln Phe Glu Val Ile Phe Leu Leu Phe Gly Leu Cys Phe Ser
 1 5 10 15
 Ser Ser Ser Ser Arg Leu Val Gly Ser Gln Val Glu Asn Phe Ser Pro
 20 25 30
 Thr Pro Cys Ile Phe Gln Ala Phe Arg Cys Ser Ser Leu Ala Ile Ile
 35 40 45
 Ser Met Ser Leu Ser
 50

<210> 417
 <211> 421
 <212> PRT
 <213> Homo sapiens

<400> 417
 Met Thr Val Phe Phe Lys Thr Leu Arg Asn His Trp Lys Lys Thr Thr
 1 5 10 15
 Ala Gly Leu Cys Leu Leu Thr Trp Gly Gly His Trp Leu Tyr Gly Lys
 20 25 30
 His Cys Asp Asn Leu Leu Arg Arg Ala Ala Cys Gln Glu Ala Gln Val
 35 40 45
 Phe Gly Asn Gln Leu Ile Pro Pro Asn Ala Gln Val Lys Lys Ala Thr
 50 55 60
 Val Phe Ser Ile Leu Gln Leu Ala Lys Glu Lys Pro Gly Leu Tyr Leu
 65 70 75 80

Lys Lys Met Leu Pro Asp Phe Thr Phe Ile Trp His Gly Cys Asp Tyr
 85 90 95
 Cys Lys Thr Asp Tyr Glu Gly Gln Ala Lys Lys Leu Leu Glu Leu Met
 100 105 110
 Glu Asn Thr Asp Val Ile Ile Val Ala Gly Gly Asp Gly Thr Leu Gln
 115 120 125
 Glu Val Val Thr Gly Val Leu Arg Arg Thr Asp Glu Ala Thr Phe Ser
 130 135 140
 Lys Ile Pro Ile Gly Phe Ile Pro Leu Gly Glu Thr Ser Ser Leu Ser
 145 150 155 160
 His Thr Leu Phe Ala Glu Ser Gly Asn Lys Val Gln His Ile Thr Asp
 165 170 175
 Ala Thr Leu Ala Ile Val Lys Gly Glu Thr Val Pro Leu Asp Val Leu
 180 185 190
 Gln Ile Lys Gly Glu Lys Glu Gln Pro Val Phe Ala Met Thr Gly Leu
 195 200 205
 Arg Trp Gly Ser Phe Arg Asp Ala Gly Val Lys Val Ser Lys Tyr Trp
 210 215 220
 Tyr Leu Gly Pro Leu Lys Ile Lys Ala Ala His PhePhe Ser Thr Leu
 225 230 235 240
 Lys Glu Trp Pro Gln Thr His Gln Ala Ser Ile Ser Tyr Thr Gly Pro
 245 250 255
 Thr Glu Arg Pro Pro Asn Glu Pro Glu Glu ThrPro Val Gln Arg Pro
 260 265 270
 Ser Leu Tyr Arg Arg Ile Leu Arg Arg Leu Ala Ser Tyr Trp Ala Gln
 275 280 285
 Pro Gln Asp Ala Leu Ser Gln Glu Val Ser Pro Glu Val TrpLys Asp
 290 295 300
 Val Gln Leu Ser Thr Ile Glu Leu Ser Ile Thr Thr Arg Asn Asn Gln
 305 310 315 320
 Leu Asp Pro Thr Ser Lys Glu Asp Phe Leu Asn Ile Cys Ile Glu Pro
 325 330 335
 Asp Thr Ile Ser Lys Gly Asp Phe Ile Thr Ile Gly Ser Arg Lys Val
 340 345 350
 Arg Asn Pro Lys Leu His Val Glu Gly Thr Glu Cys Leu Gln Ala Ser
 355 360 365
 Gln Cys Thr Leu Leu Ile Pro Glu Gly Ala Gly Gly Ser Phe Ser Ile
 370 375 380

Asp Ser Glu Glu Tyr Glu Ala Met Pro Val Glu Val Lys Leu Leu Pro
 385 390 395 400
 Arg Lys Leu Gln Phe Phe Cys Asp Pro Arg Lys Arg Glu Gln Met Leu
 405 410 415
 Thr Ser Pro Thr Gln
 420

<210> 418
 <211> 242
 <212> PRT
 <213> Homo sapiens

<400> 418
 Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
 1 5 10 15
 Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
 20 25 30
 Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
 35 40 45
 Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
 50 55 60
 Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
 65 70 75 80
 Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
 85 90 95
 Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
 100 105 110
 Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
 115 120 125
 Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
 130 135 140
 Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
 145 150 155 160
 Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
 165 170 175
 Leu Ala Phe Leu Ser Gly Tyr Tyr Val Thr Leu Ala Ala Gln Ile Leu
 180 185 190
 Ala Val Leu Leu Pro Pro Val Met Leu Leu Ile Asp Gly Asn Val Ala
 195 200 205

Tyr Trp His Asn Thr Arg Arg Val Glu Phe Trp Asn Gln Met Lys Leu
 210 215 220

Leu Gly Glu Ser Val Gly Ile Phe Gly Thr Ala Val Ile Leu Ala Thr
 225 230 235 240

Asp Gly

<210> 419
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 419
 Met Ala Thr Leu Gln Ile Thr Thr Ala Met Lys Ile Thr Met Met Ile
 1 5 10 15

Thr Met Val Met Ile Ile Thr Thr Ile Val Glu Ala Met Lys Ile Pro
 20 25 30

Thr Thr Ala Met Met Met Ala Met Gln
 35 40

<210> 420
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 420
 Met Tyr Ile Phe Glu Leu Ser Leu Tyr Leu Glu Gly Thr Ser Phe Val
 1 5 10 15

Val Val Leu Leu Phe Leu Leu Ile Ser Val Ser Leu Asp Ser Pro Pro
 20 25 30

Thr Thr Lys Gly Trp Asp Ser Val Leu His Ile Trp Val Pro Leu Ile
 35 40 45

Val Gln
 50

<210> 421
 <211> 189
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 421

Met Ala Leu Leu Ser Arg Pro Ala Leu Thr Leu Leu Leu Leu Leu Met
1 5 10 15
Ala Ala Val Val Arg Cys Gln Glu Gln Ala Gln Thr Thr Asp Trp Arg
20 25 30
Ala Thr Leu Lys Thr Ile Arg Asn Gly Val His Lys Ile Asp Thr Tyr
35 40 45
Leu Asn Ala Ala Leu Asp Leu Leu Gly Gly Glu Asp Gly Leu Cys Gln
50 55 60
Tyr Lys Cys Ser Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys
65 70 75 80
Pro Ser Pro Pro Asn Gly Cys Gly Ser Pro Bu Phe Gly Xaa His Leu
85 90 95
Asn Ile Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg
100 105 110
Cys Tyr Glu Thr Cys Gly Lys Ser Lys Asn Asp Øs Asp Glu Glu Phe
115 120 125
Gln Tyr Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly
130 135 140
Leu Thr Gln His Val Gln Ala Cys Glu Thr Thr Val Glu Leu Leu Phe
145 150 155 160
Asp Ser Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg
165 170 175
Ala Ala Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
180 185

<210> 422

<211> 140

<212> PRT

<213> Homo sapiens

<400> 422

Met Leu Gly Thr Ser Leu Ile Tyr Trp Thr Leu Phe Thr Leu Gly Leu
1 5 10 15
Asp Leu Ser Trp Ser Ile Ser Leu Ala Phe Lys Trp Cys Glu Arg Pro
20 25 30
Glu Trp Ile His Val Asp Ser Arg Pro Phe Ala Ser Leu Ser Arg Asp
35 40 45
Ser Gly Ala Ala Leu Gly Leu Gly Ile Ah Leu His Ser Pro Cys Tyr
50 55 60

Ala Gln Val Arg Arg Ala Gln Leu Gly Asn Gly Gln Lys Ile Ala Cys
65 70 75 80
Leu Val Leu Ala Met Gly Leu Leu Gly Pro Leu As Trp Leu Gly His
85 90 95
Pro Pro Gln Ile Ser Leu Phe Tyr Ile Phe Asn Phe Leu Lys Tyr Thr
100 105 110
Leu Trp Pro Cys Leu Val Leu Ala Leu Val Pro Trp Ala Val His Met
115 120 125
Phe Ser Ala Gln Glu Ala Pro Pro Ile His Ser Ser
130 135 140

<210> 423
<211> 64
<212> PRT
<213> Homo sapiens

<400> 423
Met Pro Leu Phe Leu Phe Val Ala His Leu Ile Ser Leu Leu Leu Ala
1 5 10 15
Phe Arg Arg Pro Pro Ala Ser Gln Ile Thr Pro Arg Ala Trp Thr Thr
20 25 30
Glu Ile Ala Ser Cys Glu Ser Val Glu Met Val Lys Ala Leu Ser Ser
35 40 45
Leu Arg Ser Arg Ala Gln Val Asn Ala Asp Phe Pro Gly His Leu Cys
50 55 60

<210> 424
<211> 49
<212> PRT
<213> Homo sapiens

<400> 424
Met Asn Leu Leu Gly Met Ile Phe Ser Met Cys Gly Leu Met Leu Lys
1 5 10 15
Leu Lys Trp Cys Ala Trp Val Ala Val Tyr Cys Ser Phe Ile Ser Phe
20 25 30
Ala Asn Ser Arg Ser Ser Glu Asp Thr Lys Gln Met Met Ser Ser Phe
35 40 45

Met

<210> 425
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 425
 Met Asn Ser Thr Leu Cys Val Val Leu Ser Leu Met Cys Met Asn Ser
 1 5 10 15
 Thr Leu Cys Val Val Leu Ser Leu Thr His Ser Cys Pro Ser Pro Gln
 20 25 30
 Val Pro Lys Val His Tyr Met Ile Phe Met Pro Leu His Leu His Ser
 35 40 45
 Leu Ala Leu Thr Gln Leu Ile Ile Ile Tyr Lys
 50 55

<210> 426
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 426
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
 1 5 10 15
 His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Leu Gly Leu
 20 25 30
 Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
 35 40 45
 Arg Ser Pro Asp Ile Pro Gln Asp Trp Val Ser Phe Leu Arg Ser Phe
 50 55 60
 Gly Gln Leu Thr Leu Cys Pro Arg Asn Gly ThrVal Thr Gly Lys Trp
 65 70 75 80
 Arg Gly Ser His Val Val Gly Leu Leu Thr Thr Leu Asn Phe Gly Asp
 85 90 95
 Gly Pro Asp Arg Asn Lys Thr Arg Thr PheGln Ala Thr Val Leu Gly
 100 105 110
 Ser Gln Met Gly Leu Lys Gly Ser Ser Ala Gly Gln Leu Val Leu Ile
 115 120 125
 Thr Ala Arg Val Thr Thr Glu Arg Thr Ala Gly Thr CysLeu Tyr Phe
 130 135 140

Ser Ala Val Pro Gly Ile Leu Pro Ser Ser Gln Pro Pro Ile Ser Cys
 145 150 155 160
 Ser Glu Glu Gly Ala Gly Asn Ala Thr Leu Ser Pro Arg Met GlyGlu
 165 170 175
 Glu Cys Val Ser Val Trp Ser His Glu Gly Leu Val Leu Thr Lys Leu
 180 185 190
 Leu Thr Ser Glu Glu Leu Ala Leu Cys Gly Ser Arg Leu Leu Val Leu
 195 200 205
 Gly Ser Phe Leu Leu Leu Phe Cys Gly Leu Leu Cys Cys Val Thr Ala
 210 215 220
 Met Cys Phe His Pro Arg Arg Glu Ser His Trp Ser Arg Thr Arg Leu
 225 230 235 240

<210> 427
 <211> 185
 <212> PRT
 <213> Homo sapiens

<400> 427
 Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
 1 5 10 15
 Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
 20 25 30
 Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
 35 40 45
 Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
 50 55 60
 Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
 65 70 75 80
 Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
 85 90 95
 Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
 100 105 110
 Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
 115 120 125
 Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
 130 135 140
 Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile ThrGly Ile Ile Ile

145 150 155 160
 Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Tyr Ala Gly Ile Ile
 165 170 175
 Gly Gly Glu Ser Ile Arg Asn Arg Ser
 180 185

<210> 428
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 428
 Met Leu Leu Leu Leu Lys Thr Leu Phe Val Thr Phe Trp Ser Thr Asn
 1 5 10 15
 Leu Ser Ile Thr Phe Ser Asn Tyr Asn Val Lys Leu Tyr Gln Trp Gln
 20 25 30
 Ser Tyr Ile Val Asn Gly Ser
 35

<210> 429
 <211> 174
 <212> PRT
 <213> Homo sapiens

<400> 429
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
 65 70 75 80
 Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
 85 90 95
 Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His
 100 105 110
 His His Pro Thr Tyr Glu Pro Lys Thr Val Thr Thr Gly Ser Pro Pro
 115 120 125

Val Pro Glu Ala His Ser Pro Gly Phe Asp Gly Ala Ser Phe Ile Gly
 130 135 140

Gly Val Val Leu Val Leu Ser Leu Gln Ala Val Ala Phe Phe Val Leu
 145 150 155 160

His Phe Leu Lys Ala Lys Asp Ser Thr Tyr Gln Thr Leu Ile
 165 170

<210> 430
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 430
 Met Pro Phe Ser Ser Ser Val Lys Cys Leu Phe Gly Val Leu Leu Arg
 1 5 10 15

Phe Cys Phe Val Val Phe Ser Val Val Val Phe Thr Phe Phe Leu Ser
 20 25 30

Ile Pro Lys Arg Thr Leu Gly Tyr
 35 40

<210> 431
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 431
 Met Glu Met Leu Ser Ser Lys Trp Ser Lys Arg Val Ala Ala Ser Leu
 1 5 10 15

Ala His Leu Ile Ser Leu Phe Ile Gly Leu Leu Phe Leu Leu Leu Gly
 20 25 30

Ser Ser Val Tyr Pro Gly Thr Glu Thr Leu Phe Pro Lys Ser
 35 40 45

<210> 432
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 432
 Met Tyr Leu Phe Leu Lys Thr Leu Leu Ser Phe Ser Thr Leu Met Met
 1 5 10 15

Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu Leu
 20 25 30

Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe Ala
 35 40 45

Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe
 50 55 60

<210> 433
 <211> 319
 <212> PRT
 <213> Homo sapiens

<400> 433
 Met Ser Trp Cys Cys Leu Trp Leu Cys Leu Ser Ser Val Gly Arg Thr
 1 5 10 15

Gly Ser Ala Gly Pro Ser Leu Pro Phe Ser Glu Leu Cys Ser Leu Gly
 20 25 30

Leu Leu Arg Leu Arg Pro Val Phe Ser Pro Leu His Ser Gly Pro Gly
 35 40 45

Lys Pro Ala Gln Phe Leu Ala Gly Glu Ala Glu Glu Val Asn Ala Phe
 50 55 60

Ala Leu Gly Phe Leu Ser Thr Ser Ser Gly Val Ser Gly Glu Asp Glu
 65 70 75 80

Val Glu Pro Leu His Asp Gly Val Glu Glu Ala Glu Lys Lys Met Glu
 85 90 95

Glu Glu Gly Val Ser Val Ser Glu Met Glu Ala Thr Gly Ala Gln Gly
 100 105 110

Pro Ser Arg Val Glu Glu Ala Glu Gly His Thr Glu Val Thr Glu Ala
 115 120 125

Glu Gly Ser Gln Gly Thr Ala Glu Ala Asp Gly Pro Gly Ala Ser Ser
 130 135 140

Gly Asp Glu Asp Ala Ser Gly Arg Ala Ala Ser Pro Glu Ser Ala Ser
 145 150 155 160

Ser Thr Pro Glu Ser Leu Gln Ala Arg Arg His His Gln Phe Leu Glu
 165 170 175

Pro Ala Pro Ala Pro Gly Ala Ala Val Leu Ser Ser Glu Pro Ala Glu
 180 185 190

Pro Leu Leu Val Arg His Pro Pro Arg Pro Arg Thr Thr Gly Pro Arg
 195 200 205

Pro Arg Gln Asp Pro His Lys Ala Gly Leu Ser His Tyr Val Lys Leu
 210 215 220

Phe Ser Phe Tyr Ala Lys Met Pro Met Glu Arg Lys Ala Leu Glu Met

225 230 235 240
 Val Glu Lys Cys Leu Asp Lys Tyr Phe Gln His Leu Cys Asp Asp Leu
 245 250 255
 Glu Val Phe Ala Ala His Ala Gly Arg Lys Thr Val Lys Pro Glu Asp
 260 265 270
 Leu Glu Leu Leu Met Arg Arg Gln Gly Leu Val Thr Asp Gln Val Ser
 275 280 285
 Leu His Val Leu Val Glu Arg His Leu Pro Leu Glu Tyr Arg Gln Leu
 290 295 300
 Leu Ile Pro Cys Ala Tyr Ser Gly Asn Ser Val Phe Pro Ala Gln
 305 310 315

<210> 434
 <211> 336
 <212> PRT
 <213> Homo sapiens

<400> 434
 Met Ile Ser Tyr Ile Val Leu Leu Ser Ile Leu Leu Trp Pro Leu Val
 1 5 10 15
 Val Tyr His Glu Leu Ile Gln Arg Met Tyr Thr Arg Leu Glu Pro Leu
 20 25 30
 Leu Met Gln Leu Asp Tyr Ser Met Lys Ala Glu Ala Asn Ala Leu His
 35 40 45
 His Lys His Asp Lys Arg Lys Arg Gln Gly Lys Asn Ala Pro Pro Gly
 50 55 60
 Gly Asp Glu Pro Leu Ala Glu Thr Glu Ser Glu Ser Glu Ala Glu Leu
 65 70 75 80
 Ala Gly Phe Ser Pro Val Val Asp Val Lys Lys Thr Ala Leu Ala Leu
 85 90 95
 Ala Ile Thr Asp Ser Glu Leu Ser Asp Glu Glu Ala Ser Ile Leu Glu
 100 105 110
 Ser Gly Gly Phe Ser Val Ser Arg Ala Thr Thr Pro Gln Leu Thr Asp
 115 120 125
 Val Ser Glu Asp Leu Asp Gln Gln Ser Leu Pro Ser Glu Pro Glu Glu
 130 135 140
 Thr Leu Ser Arg Asp Leu Gly Glu Gly Glu Glu Gly Glu Leu Ala Pro
 145 150 155 160
 Pro Glu Asp Leu Leu Gly Arg Pro Gln Ala Leu Ser Arg Gln Ala Leu
 165 170 175

Asp Ser Glu Glu Glu Glu Glu Asp Val Ala Ala Lys Glu Thr Leu Leu
 180 185 190
 Arg Leu Ser Ser Pro Leu His Phe Val Asn Thr His Phe Asn Gly Ala
 195 200 205
 Gly Ser Pro Gln Asp Gly Val Lys Cys Ser Pro Gly Gly Pro Val Glu
 210 215 220
 Thr Leu Ser Pro Glu Thr Val Ser Gly Gly Leu Thr Ala Leu Pro Gly
 225 230 235 240
 Thr Leu Ser Pro Pro Leu Cys Leu Val Gly Ser Asp Pro Ala Pro Ser
 245 250 255
 Pro Ser Ile Leu Pro Pro Val Pro Gln Asp Ser Pro Gln Pro Leu Pro
 260 265 270
 Ala Pro Glu Glu Glu Glu Ala Leu Thr Thr Glu Asp Phe Glu Leu Leu
 275 280 285
 Asp Gln Gly Glu Leu Glu Gln Leu Asn Ala Glu Leu Gly Leu Glu Pro
 290 295 300
 Glu Thr Pro Pro Lys Pro Pro Asp Ala Pro Pro Leu Gly Pro Asp Ile
 305 310 315 320
 His Ser Leu Val Gln Ser Asp Gln Glu Ala Gln Ala Val Ala Glu Pro
 325 330 335

<210> 435
 <211> 272
 <212> PRT
 <213> Homo sapiens

<400> 435
 Met Trp Gly Asn Lys Phe Gly Val Leu Leu Phe Leu Tyr Ser Val Leu
 1 5 10 15
 Leu Thr Lys Gly Ile Glu Asn Ile Lys Asn Glu Ile Glu Asp Ala Ser
 20 25 30
 Glu Pro Leu Ile Asp Pro Val Tyr Gly His Gly Ser Gln Ser Leu Ile
 35 40 45
 Asn Leu Leu Leu Thr Gly His Ala Val Ser Asn Val Trp Asp Gly Asp
 50 55 60
 Arg Glu Cys Ser Gly Met Lys Leu Leu Gly Ile His Glu Gln Ala Ala
 65 70 75 80

Val Gly Phe Leu Thr Leu Met Glu Ala Leu Arg Tyr Cys Lys Val Gly
 85 90 95
 Ser Tyr Leu Lys Ser Pro Lys Phe Pro Ile Trp Ile Val Gly Ser Glu
 100 105 110
 Thr His Leu Thr Val Phe Phe Ala Lys Asp Met Ala Leu Val Ala Pro
 115 120 125
 Glu Ala Pro Ser Glu Gln Ala Arg Arg Val Phe Gln Thr Tyr Asp Pro
 130 135 140
 Glu Asp Asn Gly Phe Ile Pro Asp Ser Leu Leu Glu Asp Val Met Lys
 145 150 155 160
 Ala Leu Asp Leu Val Ser Asp Pro Glu Tyr Ile Asn Leu Met Lys Asn
 165 170 175
 Lys Leu Asp Pro Glu Gly Leu Gly Ile Ile Leu Leu Gly Pro Phe Leu
 180 185 190
 Gln Glu Phe Phe Pro Asp Gln Gly Ser Ser Gly Pro Glu Ser Phe Thr
 195 200 205
 Val Tyr His Tyr Asn Gly Leu Lys Gln Ser Asn Tyr Asn Glu Lys Val
 210 215 220
 Met Tyr Val Glu Gly Thr Ala Val Val Met Gly Phe Gln Asp Pro Met
 225 230 235 240
 Leu Gln Thr Asp Asp Thr Pro Ile Lys Arg Cys Leu Gln Thr Lys Trp
 245 250 255
 Pro Tyr Ile Glu Leu Leu Trp Thr Thr Asp Arg Ser Pro Ser Leu Asn
 260 265 270

<210> 436
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 436
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Val Leu Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly

50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Asp Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 437
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 437
 Met Tyr Leu Met Ser Phe Ser Ile His Phe Val Lys Ile Ile Cys Met
 1 5 10 15
 Cys Thr Ile Leu Val Leu Ser Pro Pro Val Leu Leu Lys Tyr Gln Asp
 20 25 30
 Ser Thr Pro Arg Pro Leu Trp Ser Gln Cys Lys Ile Pro Ile Asn Tyr
 35 40 45
 Leu Lys Gly Lys
 50

<210> 438
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 438
 Met Ala Gln His His Leu Leu Ser Ile Leu Leu Ala Ile Leu Ser Cys
 1 5 10 15
 Ser Ser Gln Pro Arg Gln Xaa Arg Gly Ser Gly Ala Leu Pro Cys Glu
 20 25 30
 Val Cys Ser Ala Val Leu Leu Thr Cys Leu Arg Lys Ile Ser Gly Ser
 35 40 45
 Leu Cys Val
 50

<210> 439
 <211> 63

<212> PRT
<213> Homo sapiens

<400> 439

Met Leu Arg Gly Trp Ala Leu Ser Thr Phe Leu Val Cys Ile Leu Gln
1 5 10 15
Trp Val Arg Ser Leu Thr Ile Arg Leu Ala Ser Ala Leu Ser Val Arg
20 25 30
Gly Pro Ser Ser Ile Pro Ala Ser Leu Ala Ile Ile Tyr Thr Leu Phe
35 40 45
Ile Phe Ser Phe Lys Phe Leu Lys Ile Val Lys Ser Ile Tyr Ile
50 55 60

<210> 440
<211> 74
<212> PRT
<213> Homo sapiens

<400> 440

Met Leu His Leu Ala Ala Met Trp Trp Ala Cys Val Thr Thr Leu Val
1 5 10 15
Phe Thr Leu Val Ser Lys Leu Phe Ile Pro Leu Lys Ser Ser Met Asp
20 25 30
Gly Glu Met Ser Leu Asp Pro His Ser Cys Val Leu Val Cys Ile Cys
35 40 45
Phe Pro Leu Arg Phe Val Phe Val Ser Cys Phe Glu Leu Tyr Leu Val
50 55 60
Gln Ser Ile Val Lys Leu Ser Gln Gln Leu
65 70

<210> 441
<211> 127
<212> PRT
<213> Homo sapiens

<400> 441

Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val
1 5 10 15
Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp
20 25 30
Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly
35 40 45
Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys

50 55 60
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly
 65 70 75 80
 Arg Pro Pro Tyr Lys Glu Pro Gln Asp Cys Ser His Gly Cys His Leu
 85 90 95
 Ser Trp Lys Gly Arg Phe Met Gly Phe Pro Gly Thr Pro Arg Leu Ser
 100 105 110
 Trp Pro Arg Gly Lys Arg Trp Leu Leu Gln Glu Phe Asp Leu Ser
 115 120 125

<210> 442
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 442
 Met Ser Ala Leu Ser Phe Thr Ser Tyr Phe Leu Leu Leu Leu Arg Val
 1 5 10 15
 Lys Pro Val Glu Val Ser Gly Ser Ile Pro His Pro Gln Gln Pro Asn
 20 25 30
 Val Leu Cys Leu Val Leu Pro Thr Phe Gly Tyr
 35 40

<210> 443
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 443
 Leu Gln
 1

<210> 444
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 444
 Met Met Pro Leu Lys Leu His Ala Lys Cys Leu Tyr Leu Leu Lys Cys
 1 5 10 15
 Val Phe Phe Val Gly Val Gly Gly Met Thr Phe Tyr Gln Ile Leu Thr
 20 25 30
 Gly Phe Lys Ile Gln Lys Ser Leu Asp Leu Val Gly

35

40

<210> 445
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 445
 Met Phe Tyr Pro Pro Cys Pro Phe Phe Pro Gln Leu Cys ~~He~~ Cys Ile
 1 5 10 15
 Phe Phe Leu Gly Lys Cys Lys Leu Ser Leu Ser Phe Met Thr Cys Glu
 20 25 30
 Ile Ser Val Ser Leu Glu Phe Val Arg Arg Arg Gly Asn His ~~Ala~~
 35 40 45

<210> 446
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (83)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 446
 Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu
 1 5 10 15
 Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu
 20 25 30
 Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys
 35 40 45
 Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly

50 55 60
 His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu
 65 70 75 80
 Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg
 85 90 95
 Phe Val Leu Gln
 100

<210> 447
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 447
 Met Ile Ile Leu His Ile Val Val Cys Leu Phe Thr Ile Ser Ile Ile
 1 5 10 15
 Glu Glu Gln Lys Glu Glu Ile Leu Cys Ser Thr Lys Ser Gln Ala Glu
 20 25 30
 Lys Thr Val Thr His Ile Glu Gln
 35 40

<210> 448
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 448
 Met Gln Lys Lys Lys Leu Val Cys Tyr Leu Met Leu Arg Gln Tyr Phe
 1 5 10 15
 Phe Leu Val Val Val Ser Leu Pro Trp Pro Cys Val Leu Phe Gln Met
 20 25 30
 His Tyr Pro Arg Thr Val Thr Pro Thr Leu Thr Glu Tyr
 35 40 45

<210> 449
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 449
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys

20 25 30
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro
 85 90 95
 Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Ser
 100 105 110
 Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu
 115 120 125
 Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro
 130 135 140
 Cys Arg
 145

<210> 450
 <211> 941
 <212> PRT
 <213> Homo sapiens

<400> 450
 Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
 1 5 10 15
 Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
 20 25 30
 Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
 35 40 45
 Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
 50 55 60
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
 65 70 75 80
 Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
 85 90 95
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
 100 105 110
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
 115 120 125

Glu	Gln	Ile	Ala	Leu	Leu	Ala	Pro	Glu	Pro	Leu	Leu	Val	Gly	Leu	Pro	130	135	140
Tyr	Thr	Val	Val	Ile	His	Tyr	Ala	Gly	Asn	Leu	Ser	Glu	Thr	Phe	His	145	150	155
Gly	Phe	Tyr	Lys	Ser	Thr	Tyr	Arg	Thr	Lys	Glu	Gly	Glu	Leu	Arg	Ile	165	170	175
Leu	Ala	Ser	Thr	Gln	Phe	Glu	Pro	Thr	Ala	Ala	Arg	Met	Ala	Phe	Pro	180	185	190
Cys	Phe	Asp	Glu	Pro	Ala	Phe	Lys	Ala	Ser	Phe	Ser	Ile	Lys	Ile	Arg	195	200	205
Arg	Glu	Pro	Arg	His	Leu	Ala	Ile	Ser	Asn	Met	Pro	Leu	Val	Lys	Ser	210	215	220
Val	Thr	Val	Ala	Glu	Gly	Leu	Ile	Glu	Asp	His	Phe	Asp	Val	Thr	Val	225	230	235
Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Phe	Ile	Ile	Ser	Asp	Phe	Glu	Ser	245	250	255
Val	Ser	Lys	Ile	Thr	Lys	Ser	Gly	Val	Lys	Val	Ser	Val	Tyr	Ala	Val	260	265	270
Pro	Asp	Lys	Met	Asn	Gln	Ala	Asp	Tyr	Ala	Leu	Asp	Ala	Ala	Val	Thr	275	280	285
Leu	Leu	Glu	Phe	Tyr	Glu	Asp	Tyr	Phe	Ser	Ile	Pro	Tyr	Pro	Leu	Pro	290	295	300
Lys	Gln	Asp	Leu	Ala	Ala	Ile	Pro	Asp	Phe	Gln	Ser	Gly	Ala	Met	Glu	305	310	315
Asn	Trp	Gly	Leu	Thr	Thr	Tyr	Arg	Glu	Ser	Ala	Leu	Leu	Phe	Asp	Ala	325	330	335
Glu	Lys	Ser	Ser	Ala	Ser	Ser	Lys	Leu	Gly	Ile	Thr	Met	Thr	Val	Ala	340	345	350
His	Glu	Leu	Ala	His	Gln	Trp	Phe	Gly	Asn	Leu	Val	Thr	Met	Glu	Trp	355	360	365
Trp	Asn	Asp	Leu	Trp	Leu	Asn	Glu	Gly	Phe	Ala	Lys	Phe	Met	Glu	Phe	370	375	380
Val	Ser	Val	Ser	Val	Thr	His	Pro	Glu	Leu	Lys	Val	Gly	Asp	Tyr	Phe	385	390	395
Phe	Gly	Lys	Cys	Phe	Asp	Ala	Met	Glu	Val	Asp	Ala	Leu	Asn	Ser	Ser	405	410	415
His	Pro	Val	Ser	Thr	Pro	Val	Glu	Asn	Pro	Ala	Gln	Ile	Arg	Glu	Met	420	425	430

Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
435 440 445
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile ValGln Tyr
450 455 460
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
465 470 475 480
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
485 490 495
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser Ser His Trp His Gln
500 505 510
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
515 520 525
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
530 535 540
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly
545 550 555 560
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
565 570 575
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro
580 585 590
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
595 600 605
Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu
610 615 620
Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile
625 630 635 640
Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys
645 650 655
Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro
660 665 670
Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu
675 680 685
Lys Arg Asp Met Asn Glu Val Glu Thr Gln Phe Lys Ala Phe Leu Ile
690 695 700
Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly
705 710 715 720
Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu Leu Leu Leu Ala Cys
725 730 735

Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg
 740 745 750
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro Val Asp Val Thr
 755 760 765
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe
 770 775 780
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln
 785 790 795 800
 Ile Glu Phe Ala Leu Cys Arg Thr Gln Asn Lys Glu Lys Leu Gln Trp
 805 810 815
 Leu Leu Asp Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe
 820 825 830
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu
 835 840 845
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe
 850 855 860
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn
 865 870 875 880
 Gln Phe Ser Thr Arg Thr Arg Leu GluGlu Val Lys Gly Phe Phe Ser
 885 890 895
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile
 900 905 910
 Glu Thr Ile Glu Glu Asn Ile Gly Trp MetAsp Lys Asn Phe Asp Lys
 915 920 925
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 451
 <211> 316
 <212> PRT
 <213> Homo sapiens

<400> 451
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala Pro Gly Thr Glu
 1 5 10 15
 Gly Gln Gln Gln Val His Gly Glu Lys Lys Glu Ala Pro Ala Val Pro
 20 25 30
 Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu Gly Met Lys
 35 40 45

Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro Leu His Pro Ser
 50 55 60
 Trp Ala Tyr Val Asp Pro Ser Ser Ser Ser Tyr Asp Asn Gly Phe
 65 70 75 80
 Pro Thr Gly Asp His Glu Leu Phe Thr Thr Phe Ser Trp Asp Asp Gln
 85 90 95
 Lys Val Arg Arg Val He Val Arg Lys Val Tyr Thr Ile Leu Leu Ile
 100 105 110
 Gln Leu Leu Val Thr Leu Ala Val Val Ala Leu Phe Thr Phe Cys Asp
 115 120 125
 Pro Val Lys Asp Tyr Val Gln Ala Asn Pro Gly Trp Tyr Trp Ala Ser
 130 135 140
 Tyr Ala Val Phe Phe Ala Thr Tyr Leu Thr Leu Ala Cys Cys Ser Gly
 145 150 155 160
 Pro Arg Arg His Phe Pro Trp Asn Leu Ile Bu Leu Thr Val Phe Thr
 165 170 175
 Leu Ser Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr
 180 185 190
 Thr Ser Val Leu Leu Cys Leu Gly Ile Thr Ala Bu Val Cys Leu Ser
 195 200 205
 Val Thr Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln
 210 215 220
 Gly Val Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile
 225 230 235 240
 Leu Ala Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val
 245 250 255
 Tyr Ala Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Sp
 260 265 270
 Thr Gln Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu
 275 280 285
 Tyr Ile Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe
 290 295 300
 Thr Phe Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
 305 310 315

<210> 452
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 452

```
Met Ser His Ser Val Phe Ala His Tyr Ile Phe Asn Ile Leu Leu Leu
 1          5          10          15
Leu Leu Leu Leu Leu Leu Ile Gly Phe Leu Tyr Ser Met Pro Phe Ile
          20          25          30
Tyr Lys Asp Thr Lys Lys Thr His Val Cys Asn Phe Asn Asn Ile Phe
          35          40          45
Pro Ile Leu
          50
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<210> 453

<211> 267

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (175)

<223> Xaa equals any of the naturally occurring amino acids

<400> 453

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Met Ser Glu Ile Arg Gly Lys Pro Ile Glu Ser Ser Cys Met Tyr Gly
 1          5          10          15
Thr Cys Cys Leu Trp Gly Lys Thr Tyr Ser Ile Gly Phe Leu Arg Phe
          20          25          30
Cys Lys Gln Ala Thr Leu Gln Phe Cys Val Val Lys Pro Leu Met Ala
          35          40          45
Val Ser Thr Val Val Leu Gln Ala Phe Gly Lys Tyr Arg Asp Gly Asp
          50          55          60
Phe Asp Val Thr Ser Gly Tyr Leu Tyr Val Thr Ile Ile Tyr Asn Ile
          65          70          75          80
Ser Val Ser Leu Ala Leu Tyr Ala Leu Phe Leu Phe Tyr Phe Ala Thr
          85          90          95
Arg Glu Leu Leu Ser Pro Tyr Ser Pro Val Leu Lys Phe Phe Met Val
          100          105          110
Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu Ala Ile
          115          120          125
Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg Val Ser
```

130	135	140
Val Gly Glu Gly Thr	Val Ala Ala Gly Tyr	Gln Asp Phe Ile Ile Cys
145	150	155 160
Val Glu Met Phe Phe	Ala Ala Leu Ala Leu	Arg Xaa Ala Phe Xaa Tyr
	165	170 175
Lys Val Tyr Ala Asp	Lys Arg Leu Asp Ala	Gln Gly Arg Cys Ala Pro
	180	185 190
Met Lys Ser Ile Ser	Ser Ser Leu Lys Glu	Thr Met Asn Pro His Asp
	195	200 205
Ile Val Gln Asp Ala	Ile His Asn Phe Ser	Pro Ala Tyr Gln Gln Tyr
	210	215 220
Thr Gln Gln Ser Thr	Leu Glu Pro Gly Pro	Thr Trp Arg Gly Gly Ala
	225	230 235 240
His Gly Leu Ser Arg	Ser His Ser Leu Ser	Gly Ala Arg Asp Asn Glu
	245	250 255
Lys Thr Leu Leu Leu	Ser Ser Asp Asp	Glu Phe
	260	265

<210> 454
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 454
 Met Leu Val Leu Met Thr Thr Cys Ile Leu Ala Ala Val Cys ValHis
 1 5 10 15
 Thr Ala Gln Cys Ala Pro Asp Ser Arg Met Asp Asn Asp Cys Pro Ser
 20 25 30
 His Gln Ala Gln Ile His Phe Arg Ala Ser Glu Val Arg Arg Gly Trp
 35 40 45
 Thr Phe Asn His Asp
 50

<210> 455
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 455
 Met Gly Leu His Leu Arg Pro Tyr Arg Val Gly Leu Leu Pro Asp Gly
 1 5 10 15

Leu Leu Phe Leu Leu Leu Leu Leu Met Leu Leu Ala Asp Pro Ala Leu
 20 25 30
 Pro Ala Gly Arg His Pro Pro Val Val Leu Val Pro Gly Asp Leu Gly
 35 40 45
 Asn Gln Leu Glu Ala Lys Leu Asp Lys Pro Thr Val Val His Tyr Leu
 50 55 60
 Cys Ser Lys Lys Thr Glu Ser Tyr Phe Thr Ile Trp Leu Asn Leu Glu
 65 70 75 80
 Leu Leu Leu Pro Val His His
 85

<210> 456
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 456
 Met Gly Pro Ser Gln Arg Glu Val Thr Val Gln Trp His Arg Ala Leu
 1 5 10 15
 Phe Leu Leu Pro Leu Leu Leu Leu Ser Thr Arg Thr Glu Thr Lys Asn
 20 25 30
 Phe Gly Phe Lys Trp Leu Lys Asp
 35 40

<210> 457
 <211> 525
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 457
 Met Leu Ala Phe Pro Leu Leu Leu Thr Gly Leu Ile Ser Phe Arg Glu
 1 5 10 15
 Lys Arg Leu Gln Asp Val Gly Thr Pro Ala Ala Arg Ala Arg Ala Phe
 20 25 30
 Phe Thr Ala Pro Val Val Val Phe His Leu Asn Ile Leu Ser Tyr Phe
 35 40 45
 Ala Phe Leu Cys Leu Phe Ala Tyr Val Leu Met Val Asp Phe Gln Pro
 50 55 60

Val Pro Ser Trp Cys Glu Cys Ala Ile Tyr Leu Trp Leu Phe Ser Leu
65 70 75 80
Val Cys Glu Glu Met Arg Gln Leu Phe Tyr Asp Pro Asp Glu Cys Gly
85 90 95
Leu Met Lys Lys Ala Ala Leu Tyr Phe Ser Asp Phe Trp Asn Lys Leu
100 105 110
Asp Val Gly Ala Ile Leu Leu Phe Val Ala Gly Leu Thr Cys Arg Leu
115 120 125
Ile Pro Ala Thr Leu Tyr Pro Gly Arg Val Ile Leu Ser Leu Asp Phe
130 135 140
Ile Leu Phe Cys Leu Arg Leu Met His Ile Phe Thr Ile Ser Lys Thr
145 150 155 160
Leu Gly Pro Lys Ile Ile Ile Val Lys Arg Met Met Lys Asp Val Phe
165 170 175
Phe Phe Leu Phe Leu Leu Ala Val Trp Val Val Ser Phe Gly Val Ala
180 185 190
Lys Gln Ala Ile Leu Ile His Asn Glu Arg Arg Val Asp Trp Leu Phe
195 200 205
Arg Xaa Ala Val Tyr His Ser Tyr Leu Thr Ile Phe Gly Gln Ile Pro
210 215 220
Gly Tyr Ile Asp Gly Val Asn Phe Asn Pro Glu His Cys Ser Pro Asn
225 230 235 240
Gly Thr Asp Pro Tyr Lys Pro Lys Cys Pro Glu Ser Asp Ala Thr Gln
245 250 255
Gln Arg Pro Ala Phe Pro Glu Trp Leu Thr Val Leu Leu Leu Cys Leu
260 265 270
Tyr Leu Leu Phe Thr Asn Ile Leu Leu Leu Asn Leu Leu Ile Ala Met
275 280 285
Phe Asn Tyr Thr Phe Gln Gln Val Gln Glu His Thr Asp Gln Ile Trp
290 295 300
Lys Phe Gln Arg His Asp Leu Ile Glu Glu Tyr His Gly Arg Pro Ala
305 310 315 320
Ala Pro Pro Pro Phe Ile Leu Leu Ser His Leu Gln Leu Phe Ile Lys
325 330 335
Arg Val Val Leu Lys Thr Pro Ala Lys Arg His Lys Gln Leu Lys Asn
340 345 350
Lys Leu Glu Lys Asn Glu Glu Ala Ala Leu Leu Ser Trp Glu Ile Tyr
355 360 365

Leu Lys Glu Asn Tyr Leu Gln Asn Arg Gln Phe Gln Gln Lys Gln Arg
 370 375 380
 Pro Glu Gln Lys Ile Glu Asp Ile Ser Asn Lys Val Asp Ala Met Val
 385 390 395 400
 Asp Leu Leu Asp Leu Asp Pro Leu Lys Arg Ser Gly Ser Met Glu Gln
 405 410 415
 Arg Leu Ala Ser Leu Glu Glu Gln Val Ala Gln Thr Ala Arg Ala Leu
 420 425 430
 His Trp Ile Val Arg Thr Leu Arg Ala Ser Gly Phe Ser Ser Glu Ala
 435 440 445
 Asp Val Pro Thr Leu Ala Ser Gln Lys Ala Ala Glu Glu Pro Asp Ala
 450 455 460
 Glu Pro Gly Gly Arg Lys Lys Thr Glu Glu Pro Gly Asp Ser Tyr His
 465 470 475 480
 Val Asn Ala Arg His Leu Leu Tyr Pro Asn Cys Pro Val Thr Arg Phe
 485 490 495
 Pro Val Pro Asn Glu Lys Val Pro Trp Glu Thr Glu Phe Leu Ile Tyr
 500 505 510
 Asp Pro Pro Phe Tyr Thr Ala Glu Arg Lys Asp Ala Ala
 515 520 525

<210> 458

<211> 484

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (322)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring amino acids

<400> 458

Met Val Ala Thr Val Cys Gly Leu Leu Val Phe Leu Ser Leu Gly Leu
 1 5 10 15

Val Pro Pro Val Arg Cys Leu Phe Ala Leu Ser Val Pro Thr Leu Gly

20					25					30					
Met	Glu	Gln	Gly	Arg	Arg	Leu	Leu	Leu	Ser	Tyr	Ser	Thr	Ala	Thr	Leu
		35				40						45			
Ala	Ile	Ala	Val	Val	Pro	Asn	Val	Leu	Ala	Asn	Val	Gly	Ala	Ala	Gly
	50					55					60				
Gln	Val	Leu	Arg	Cys	Val	Thr	Glu	Gly	Ser	Leu	Glu	Ser	Leu	Leu	Asn
	65					70					75				80
Thr	Thr	His	Gln	Leu	His	Ala	Ala	Ser	Arg	Ala	Leu	Gly	Pro	Thr	Gly
				85					90					95	
Gln	Ala	Gly	Ser	Arg	Gly	Leu	Thr	Phe	Glu	Ala	Gln	Asp	Asn	Gly	Ser
			100					105					110		
Ala	Phe	Tyr	Leu	His	Met	Leu	Thr	Val	Thr	Gln	Gln	Val	Leu	Glu	Asp
		115					120					125			
Phe	Ser	Gly	Leu	Glu	Ser	Leu	Ala	Arg	Ala	Ala	Ala	Leu	Gly	Thr	Gln
		130				135					140				
Arg	Val	Val	Thr	Gly	Leu	Phe	Met	Leu	Gly	Leu	Leu	Val	Glu	Ser	Ala
	145					150					155				160
Trp	Tyr	Leu	His	Cys	Tyr	Leu	Thr	Asp	Leu	Arg	Phe	Asp	Asn	Ile	Tyr
				165					170					175	
Ala	Thr	Gln	Gln	Leu	Thr	Gln	Arg	Leu	Ala	Gln	Ala	Gln	Ala	Thr	His
			180					185					190		
Leu	Leu	Ala	Pro	Pro	Pro	Thr	Trp	Leu	Leu	Gln	Ala	Ala	Gln	Leu	Arg
		195					200					205			
Leu	Ser	Gln	Glu	Glu	Leu	Leu	Ser	Cys	Leu	Leu	Arg	Leu	Gly	Leu	Leu
	210					215					220				
Ala	Leu	Leu	Leu	Val	Ala	Thr	Ala	Val	Ala	Val	Ala	Thr	Asp	His	Val
	225					230					235			240	
Ala	Phe	Leu	Leu	Ala	Gln	Ala	Thr	Val	Asp	Trp	Ala	Gln	Lys	Leu	Pro
				245					250					255	
Thr	Val	Pro	Ile	Thr	Leu	Thr	Val	Lys	Tyr	Asp	Val	Ala	Tyr	Thr	Val
			260					265					270		
Leu	Gly	Phe	Ile	Pro	Phe	Leu	Phe	Asn	Gln	Leu	Ala	Pro	Glu	Ser	Pro
		275					280					285			
Phe	Leu	Ser	Val	His	Ser	Ser	Tyr	Gln	Trp	Glu	Leu	Arg	Leu	Thr	Ser
	290					295					300				
Ala	Arg	Cys	Pro	Leu	Leu	Pro	Ala	Arg	Arg	Pro	Arg	Ala	Ala	Ala	Pro
	305					310					315				320
Leu	Xaa	Ala	Gly	Gly	Leu	Gln	Leu	Leu	Ala	Gly	Ser	Thr	Val	Leu	Leu

Ile Ser Ala Pro Met Ser Pro Val Phe Gly Leu Leu Val Asp Lys Thr
100 105 110
Gly Lys Asn Ile Ile Trp Val Leu Cys Ala
115 120

<210> 460
<211> 46
<212> PRT
<213> Homo sapiens

<400> 460
Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val
1 5 10 15
Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly
20 25 30
Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu
35 40 45

<210> 461
<211> 66
<212> PRT
<213> Homo sapiens

<400> 461
Met Ser Trp Val Ile Val Val Ile Ile Trp Gly Tyr Leu Leu Glu Gly
1 5 10 15
His Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Ser Pro Trp Lys Leu
20 25 30
His Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg
35 40 45
Ile Leu Glu Thr Leu Met Ser Gly Ser Thr His Cys Ser Phe Ser Gly
50 55 60
Thr Phe
65

<210> 462
<211> 90
<212> PRT
<213> Homo sapiens

<400> 462
Met Pro Arg Ala Pro Trp Arg Ile Pro Leu Cys Ala Leu Pro Thr Leu
1 5 10 15

Cys Leu Gly Ser Pro Leu Pro Ser Gln Pro Thr His Pro Ile Phe Tyr
 20 25 30
 Asp His Arg Ala Pro Thr Trp Lys Met Ala His Pro Gly Gly Pro Arg
 35 40 45
 Ser Ser His Ser Pro Arg Thr Trp Arg Thr Pro Ser Ser Gln Thr Lys
 50 55 60
 Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys
 65 70 75 80
 Thr Arg Ser Arg Phe Cys Gly Thr Pro Met
 85 90

<210> 463
 <211> 710
 <212> PRT
 <213> Homo sapiens

<400> 463
 Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
 1 5 10 15
 Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
 20 25 30
 Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
 35 40 45
 Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
 50 55 60
 His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
 65 70 75 80
 Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His Trp
 85 90 95
 Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
 100 105 110
 Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
 115 120 125
 Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
 130 135 140
 Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
 145 150 155 160
 Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
 165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Phe Gly
 210 215 220
 Leu Ser Leu Tyr Trp Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp
 225 230 235 240
 His Lys Asn Leu Thr Gly Pro Gln Ile Ile Thr Leu Asn His Thr Asp
 245 250 255
 Leu Val Pro Cys Leu Cys Ile Gln Val Trp Pro Leu Glu Pro Asp Ser
 260 265 270
 Val Arg Thr Asn Ile Cys Pro Phe Arg Gu Asp Pro Arg Ala His Gln
 275 280 285
 Asn Leu Trp Gln Ala Ala Arg Leu Arg Leu Leu Thr Leu Gln Ser Trp
 290 295 300
 Leu Leu Asp Ala Pro Cys Ser Leu Pro Ala Glu Ala Ala Leu As Trp
 305 310 315 320
 Arg Ala Pro Gly Gly Asp Pro Cys Gln Pro Leu Val Pro Pro Leu Ser
 325 330 335
 Trp Glu Asn Val Thr Val Asp Lys Val Leu Glu Phe Pro Leu Leu Lys
 340 345 350
 Gly His Pro Asn Leu Cys Val Gln Val Asn Ser Ser Glu Lys Leu Gln
 355 360 365
 Leu Gln Glu Cys Leu Trp Ala Asp Ser Leu Gly Pro Leu Lys Asp Asp
 370 375 380
 Val Leu Leu Leu Glu Thr Arg Gly Pro Gln Asp Asn Arg Ser Leu Cys
 385 390 395 400
 Ala Leu Glu Pro Ser Gly Cys Thr Ser Leu Pro Ser Lys Ala Ser Thr
 405 410 415
 Arg Ala Ala Arg Leu Gly Glu Tyr Leu Leu Gln Asp Leu Gln Ser Gly
 420 425 430
 Gln Cys Leu Gln Leu Trp Asp Asp Asp Leu Gly Ala Leu Trp Ala Cys
 435 440 445
 Pro Met Asp Lys Tyr Ile His Lys Arg Trp Ala Leu Val Trp Leu Ala
 450 455 460
 Cys Leu Leu Phe Ala Ala Ala Leu Ser Leu Ile Leu Leu Leu Lys Lys
 465 470 475 480

	20		25		30
Lys Gly Lys Phe Lys Met Gln Thr Leu Leu Phe Ala Lys Glu Asp Ser	35	40	45		

<210> 465
 <211> 549
 <212> PRT
 <213> Homo sapiens

<400> 465
Met Trp Leu Pro Leu Val Leu Leu Leu Ala Val Leu Leu Leu Ala Val
1 5 10 15
Leu Cys Lys Val Tyr Leu Gly Leu Phe Ser Gly Ser Ser Pro Asn Pro
20 25 30
Phe Ser Glu Asp Val Lys Arg Pro Pro Ala Pro Leu Val Thr Asp Lys
35 40 45
Glu Ala Arg Lys Lys Val Leu Lys Gln Gly Ile His Tyr Ile Gly Arg
50 55 60
Met Glu Glu Gly Ser Ile Gly Arg Phe Ile Leu Asp Gln Ile Thr Glu
65 70 75 80
Gly Gln Leu Asp Trp Ala Pro Leu Ser Ser Pro Phe Asp Ile Met Val
85 90 95
Leu Glu Gly Pro Asn Gly Arg Lys Glu Tyr Pro Met Tyr Ser Gly Glu
100 105 110
Lys Ala Tyr Ile Gln Gly Leu Lys Glu Lys Phe Pro Gln Glu Glu Ala
115 120 125
Ile Ile Asp Lys Tyr Ile Lys Leu Val Lys Val Val Ser Ser Gly Ala
130 135 140
Pro His Ala Ile Leu Leu Lys Phe Leu Pro Leu Pro Val Val Gln Leu
145 150 155 160
Leu Asp Arg Cys Gly Leu Leu Thr Arg Phe Ser Pro Phe Leu Gln Ala
165 170 175
Ser Thr Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser
180 185 190
Glu Leu Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr
195 200 205
Pro Asn His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr
210 215 220

Met Lys Gly Gly Phe Tyr Pro Arg GlyGly Ser Ser Glu Ile Ala Phe
 225 230 235 240
 His Thr Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys
 245 250 255
 Ala Thr Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly
 260 265 270
 Val Ser Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile
 275 280 285
 Val Val Ser Asn Ala Gly Leu Phe Asn Thr TyrGlu His Leu Leu Pro
 290 295 300
 Gly Asn Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val
 305 310 315 320
 Arg Pro Gly Leu Gly Met Thr Ser Val Phe Ile Cys LeuArg Gly Thr
 325 330 335
 Lys Glu Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp
 340 345 350
 Thr Asp Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met ProArg Glu
 355 360 365
 Glu Ala Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala
 370 375 380
 Lys Asp Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile
 385 390 395 400
 Met Leu Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu
 405 410 415
 Leu Lys Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe
 420 425 430
 Val Glu Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu
 435 440 445
 Gly Lys Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe
 450 455 460
 Tyr Leu Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu
 465 470 475 480
 Gly Arg Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro
 485 490 495
 Ile Pro Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu
 500 505 510
 Val Gly Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Ala Ile Leu Lys
 515 520 525

Arg Asn Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala
 530 535 540

Gln Lys Lys Lys Asn
 545

<210> 466
 <211> 467
 <212> PRT
 <213> Homo sapiens

<400> 466
 Met Leu Leu Leu Leu Leu Leu Pro Leu Leu Trp Gly Arg Glu Arg Val
 1 5 10 15
 Glu Gly Gln Lys Ser Asn Arg Lys Asp Tyr Ser Leu Thr Met Gln Ser
 20 25 30
 Ser Val Thr Val Gln Glu Gly Met Cys Val His Val Arg Cys Ser Phe
 35 40 45
 Ser Tyr Pro Val Asp Ser Gln Thr Asp Ser Asp Pro Val His Gly Tyr
 50 55 60
 Trp Phe Arg Ala Gly Asn Asp Ile Ser Trp Lys Ala Pro Val Ala Thr
 65 70 75 80
 Asn Asn Pro Ala Trp Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His
 85 90 95
 Leu Leu Gly Asp Pro Gln Thr Lys Asn Cys Thr Leu Ser Ile Arg Asp
 100 105 110
 Ala Arg Met Ser Asp Ala Gly Arg Tyr Phe Phe Arg Met Glu Lys Gly
 115 120 125
 Asn Ile Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr
 130 135 140
 Ala Leu Thr His Arg Pro Asn Ile Leu Ile Pro Gly Thr Leu Glu Ser
 145 150 155 160
 Gly Cys Phe Gln Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln
 165 170 175
 Gly Thr Pro Pro Met Ile Ser Trp Met Gly Thr Ser Val Ser Pro Leu
 180 185 190
 His Pro Ser Thr Thr Arg Ser Ser Val Leu Thr Leu Ile Pro Gln Pro
 195 200 205
 Gln His His Gly Thr Ser Leu Thr Cys Gln Val Thr Leu Pro Gly Ala
 210 215 220

Gly Val Thr Thr Asn Arg Thr Ile Gln Leu Asn Val Ser Tyr Pro Pro
 225 230 235 240
 Gln Asn Leu Thr Val Thr Val Phe Gln Gly Glu Gly Thr Ala Ser Thr
 245 250 255
 Ala Leu Gly Asn Ser Ser Ser Leu Ser Val Leu Glu Gly Gln Ser Leu
 260 265 270
 Arg Leu Val Cys Ala Val Asp Ser Asn Pro Pro Ala Arg Leu Ser Trp
 275 280 285
 Thr Trp Arg Ser Leu Thr Leu Tyr Pro Ser Gln Pro Ser Asn Pro Leu
 290 295 300
 Val Leu Glu Leu Gln Val His Leu Gly Asp Glu Gly Glu Phe Thr Cys
 305 310 315 320
 Arg Ala Gln Asn Ser Leu Gly Ser Gln His Val Ser Leu Asn Leu Ser
 325 330 335
 Leu Gln Gln Glu Tyr Thr Gly Lys Met Arg Pro Val Ser Gly Val Leu
 340 345 350
 Leu Gly Ala Val Gly Gly Ala Gly Ala Thr Ala Leu Val Phe Leu Ser
 355 360 365
 Phe Cys Val Ile Phe Ile Val Val Arg Ser Cys Arg Lys Lys Ser Ala
 370 375 380
 Arg Pro Ala Ala Asp Val Gly Asp Ile Gly Met Lys Asp Ala Asn Thr
 385 390 395 400
 Ile Arg Gly Ser Ala Ser Gln Gly Asn Leu Thr Glu Ser Trp Ala Asp
 405 410 415
 Asp Asn Pro Arg His His Gly Leu Ala Ala His Ser Ser Gly Glu Glu
 420 425 430
 Arg Glu Ile Gln Tyr Ala Pro Leu Ser Phe His Lys Gly Glu Pro Gln
 435 440 445
 Asp Leu Ser Gly Gln Glu Ala Thr Asn Asn Glu Tyr Ser Glu Ile Lys
 450 455 460
 Ile Pro Lys
 465

<210> 467
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 467
 Met Gly Ser Gln Val Ser Ser Met Leu Lys Leu Ala Leu Gln Asn Cys

1	5	10	15
Cys Pro Gln Leu Trp Gln Arg His Ser Ala Arg Asp Ag Gln Cys Ala	20	25	30
Arg Val Leu Ala Asp Glu Arg Ser Pro Gln Pro Gly Ala Ser Pro Gln	35	40	45
Glu Asp Ile Ala Asn Phe Gln Val Leu Val Lys Ile Leu Pro Val Met	50	55	60
Val Thr Leu Val Pro Tyr Trp Met Val Tyr Phe Gln Met Gln Ser Thr	65	70	75
Tyr Val Leu Gln Gly Leu His Leu His Ile Pro Asn Ile Phe Pro Ala	85	90	95
Asn Pro Ala Asn Ile Ser Val Ala Leu Arg Ala Gln Gly Ser Ser Tyr	100	105	110
Thr Ile Pro Glu Ala Trp Leu Leu Leu Ala Asn Val Val Val Val Leu	115	120	125
Ile Leu Val Pro Leu Lys Asp Arg Leu Ile Asp Pro Leu Leu Leu Arg	130	135	140
Cys Lys Leu Leu Pro Ser Ala Leu Gln Lys Met Ala Leu Gly Met Phe	145	150	155
Phe Gly Phe Thr Ser Val Ile Val Ala Gly Val Leu Glu Met Glu Arg	165	170	175
Leu His Tyr Ile His His Asn Glu Thr Val Ser Gln Gln Ile Gly Glu	180	185	190
Val Leu Tyr Asn Ala Ala Pro Leu Ser Ile Trp Trp Gln Ile Pro Gln	195	200	205
Tyr Leu Leu Ile Gly Ile Ser Glu Ile Phe Ala Ser Ile Pro Gly Leu	210	215	220
Glu Phe Ala Tyr Ser Glu Ala Pro Arg Ser Met Gln Gly Ala Ile Met	225	230	235
Gly Ile Phe Phe Cys Leu Ser Gly Val Gly Ser Leu Leu Gly Ser Ser	245	250	255
Leu Val Ala Leu Leu Ser Leu Pro Gly Gly Trp Leu His Cys Pro Lys	260	265	270
Asp Phe Gly Asn Ile Asn Asn Cys Arg Met Asp Leu Tyr Phe Phe Leu	275	280	285
Leu Ala Gly Ile Gln Ala Val Thr Ala Leu Leu Phe Val Trp Ile Ala	290	295	300
Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro Ala Ser His Ser Arg Phe			

305 310 315 320

Ser Arg Asp Arg Gly
325

<210> 468
<211> 98
<212> PRT
<213> Homo sapiens

<400> 468
Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu
1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu
20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro
35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ala
50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu
65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu
85 90 95

Leu Pro

<210> 469
<211> 608
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (265)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (597)
<223> Xaa equals any of the naturally occurring amino acids

<400> 469
Met Val Gly Thr Lys Leu Arg Gln Thr Lys Asp Ala Leu Phe Thr Ile
1 5 10 15

Leu His Asp Leu Arg Pro Gln Asp Arg Phe Ser Ile Ile Gly Phe Ser
20 25 30

Asn Arg Ile Lys Val Trp Lys Asp His Leu Ile Ser Val Thr Pro Asp
 35 40 45
 Ser Ile Arg Asp Gly Lys Val Tyr Ile His His Met Ser Pro Thr Gly
 50 55 60
 Gly Thr Asp Ile Asn Gly Val Leu Gln Arg Ala Ile Arg Leu Leu Asn
 65 70 75 80
 Lys Tyr Val Ala His Ser Gly Ile Gly Asp Arg Ser Val Ser Leu Ile
 85 90 95
 Val Phe Leu Thr Asp Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu
 100 105 110
 Lys Ile Leu Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile
 115 120 125
 Phe Thr Ile Gly Ile Gly Asn Asp Val Asp Phe Arg Leu Leu Glu Lys
 130 135 140
 Leu Ser Leu Glu Asn Cys Gly Leu Thr Arg Arg Val His Glu Glu Glu
 145 150 155 160
 Asp Ala Gly Ser Gln Leu Ile Gly Phe Tyr Asp Glu Ile Arg Thr Pro
 165 170 175
 Leu Leu Ser Asp Ile Arg Ile Asp Tyr Pro Pro Ser Ser Val Val Gln
 180 185 190
 Ala Thr Lys Thr Leu Phe Pro Asn Tyr Phe Asn Gly Ser Glu Ile Ile
 195 200 205
 Ile Ala Gly Lys Leu Val Asp Arg Lys Leu Asp His Leu His Val Glu
 210 215 220
 Val Thr Ala Ser Asn Ser Lys Lys Phe Ile Ile Leu Lys Thr Asp Val
 225 230 235 240
 Pro Val Arg Pro Gln Lys Ala Gly Lys Asp Val Thr Gly Ser Pro Arg
 245 250 255
 Pro Gly Gly Asp Gly Glu Gly Asp Xaa Asn His Ile Glu Arg Leu Trp
 260 265 270
 Ser Tyr Leu Thr Thr Lys Glu Leu Leu Ser Ser Trp Leu Gln Ser Asp
 275 280 285
 Asp Glu Pro Glu Lys Glu Arg Leu Arg Gln Arg Ala Gln Ala Leu Ala
 290 295 300
 Val Ser Tyr Arg Phe Leu Thr Pro Phe Thr Ser Met Lys Leu Arg Gly
 305 310 315 320
 Pro Val Pro Arg Met Asp Gly Leu Glu Glu Ala His Gly Met Ser Ala
 325 330 335

Ala Met Gly Pro Glu Pro Val Val Gln Ser Val Arg Gly Ala Gly Thr
 340 345 350
 Gln Pro Gly Pro Leu Leu Lys Lys Pro Tyr Gln Pro Arg Ile Lys Ile
 355 360 365
 Ser Lys Thr Ser Val Asp Gly Asp Pro His Phe Val Val Asp Phe Pro
 370 375 380
 Leu Ser Arg Leu Thr Val Cys Phe Asn Ile Asp Gly Gln Pro Gly Asp
 385 390 395 400
 Ile Leu Arg Leu Val Ser Asp His Arg Asp Ser Gly Val Thr Val Asn
 405 410 415
 Gly Glu Leu Ile Gly Ala Pro Ala Pro Pro Asn Gly His Lys Lys Gln
 420 425 430
 Arg Thr Tyr Leu Arg Thr Ile Thr Ile Leu Ile Asn Lys Pro Glu Arg
 435 440 445
 Ser Tyr Leu Glu Ile Thr Pro Ser Arg Val Ile Leu Asp Gly Gly Asp
 450 455 460
 Arg Leu Val Leu Pro Cys Asn Gln Ser Val Val Val Gly Ser Trp Gly
 465 470 475 480
 Leu Glu Val Ser Val Ser Ala Asn Ala Asn Val Thr Val Thr Ile Gln
 485 490 495
 Gly Ser Ile Ala Phe Val Ile Leu Ile His Leu Tyr Lys Lys Pro Ala
 500 505 510
 Pro Phe Gln Arg His His Leu Gly Phe Tyr Ile Ala Asn Ser Glu Gly
 515 520 525
 Leu Ser Ser Asn Cys His Gly Leu Leu Gly Gln Phe Leu Asn Gln Asp
 530 535 540
 Ala Arg Leu Thr Glu Asp Pro Ala Gly Pro Ser Gln Asn Leu Thr His
 545 550 555 560
 Pro Leu Leu Leu Gln Val Gly Glu Gly Pro Glu Ala Val Leu Thr Val
 565 570 575
 Lys Gly His Gln Val Pro Val Val Trp Lys Gln Arg Lys Ile Tyr Asn
 580 585 590
 Gly Glu Glu Gln Xaa Asp Cys Trp Phe Ala Arg Asn Met Pro Pro Asn
 595 600 605

<210> 470
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 470
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30
 Ile Cys Ser Gln Arg Ser Ser Ser Trp Glu Met Pro Pro Gln Gly Pro
 35 40 45
 Ala Pro Asp His Val Gly Arg Ala
 50 55

<210> 471
 <211> 540
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 471
 Met Val Arg Thr Asp Gly His Thr Leu Ser Glu Lys Arg Asn Tyr Gln
 1 5 10 15
 Val Thr Asn Ser Met Phe Gly Ala Ser Arg Lys Lys Phe Val Glu Gly
 20 25 30
 Val Asp Ser Asp Tyr His Asp Glu Asn Met Tyr Tyr Ser Gln Ser Ser
 35 40 45
 Met Phe Pro His Arg Ser Glu Lys Asp Met Leu Ala Ser Pro Ser Thr
 50 55 60
 Ser Gly Gln Leu Ser Gln Phe Gly Ala Ser Leu Tyr Gly Gln Gln Ser
 65 70 75 80
 Ala Leu Gly Leu Pro Met Arg Gly Met Ser Asn Asn Thr Pro Gln Leu
 85 90 95
 Asn Arg Ser Leu Ser Gln Gly Thr Gln Leu Pro Ser His Val Thr Pro
 100 105 110
 Thr Thr Gly Val Pro Thr Met Ser Leu His Thr Pro Pro Ser Pro Ser
 115 120 125
 Arg Gly Ile Leu Pro Met Asn Pro Xaa Asn Met Met Asn His Ser Gln
 130 135 140

Val Gly Gln Gly Ile Gly Ile Pro Ser Arg Thr Asn Ser Met Ser Ser
145 150 155 160
Ser Gly Leu Gly Ser Pro Asn Arg Ser Ser Pro Ser Ile Ile Cys Met
165 170 175
Pro Lys Gln Gln Pro Ser Arg Gln Pro Phe Thr Val Asn Ser Met Ser
180 185 190
Gly Phe Gly Met Asn Arg Asn Gln Ala Phe Gly Met Asn Asn Ser Leu
195 200 205
Ser Ser Asn Ile Phe Asn Gly Thr Asp Gly Ser Glu Asn Val Thr Gly
210 215 220
Leu Asp Leu Ser Asp Phe Pro Ala Leu Ala Asp Arg Asn Arg Arg Glu
225 230 235 240
Gly Ser Gly Asn Pro Thr Pro Leu Ile Asn Pro Leu Ala Gly Arg Ala
245 250 255
Pro Tyr Val Gly Met Val Thr Lys Pro Ala Asn Glu Gln Ser Gln Asp
260 265 270
Phe Ser Ile His Asn Glu Asp Phe Pro Ala Leu Pro Gly Ser Ser Tyr
275 280 285
Lys Asp Pro Thr Ser Ser Asn Asp Asp Ser Lys Ser Asn Leu Asn Thr
290 295 300
Ser Gly Lys Thr Thr Ser Ser Thr Asp Gly Pro Lys Phe Pro Gly Asp
305 310 315 320
Lys Ser Ser Thr Thr Gln Asn Asn Asn Gln Gln Lys Lys Gly Ile Gln
325 330 335
Val Leu Pro Asp Gly Arg Val Thr Asn Ile Pro Gln Gly Met Val Thr
340 345 350
Asp Gln Phe Gly Met Ile Gly Leu Leu Thr Phe Ile Arg Ala Ala Glu
355 360 365
Thr Asp Pro Gly Met Val His Leu Ala Leu Gly Ser Asp Leu Thr Thr
370 375 380
Leu Gly Leu Asn Leu Asn Ser Pro Glu Asn Leu Tyr Pro Lys Phe Ala
385 390 395 400
Ser Pro Trp Ala Ser Ser Pro Cys Arg Pro Gln Asp Ile Asp Phe His
405 410 415
Val Pro Ser Glu Tyr Leu Thr Asn Ile His Ile Arg Asp Lys Leu Ala
420 425 430
Ala Ile Lys Leu Gly Arg Tyr Gly Glu Asp Leu Leu Phe Tyr Leu Tyr
435 440 445

Tyr Met Asn Gly Gly Asp Val Leu Gln Leu Leu Ala Ala Val Glu Leu
 450 455 460
 Phe Asn Arg Asp Trp Arg Tyr His Lys Glu Glu Arg Val Trp Ile Thr
 465 470 475 480
 Arg Ala Pro Gly Met Glu Pro Thr Met Lys Thr Asn Thr Tyr Glu Arg
 485 490 495
 Gly Thr Tyr Tyr Phe Phe Asp Cys Leu Asn Trp Arg Lys Val Ala Lys
 500 505 510
 Glu Phe His Leu Glu Tyr Asp Lys Leu Glu Glu Arg Pro His Leu Pro
 515 520 525
 Ser Thr Phe Asn Tyr Asn Pro Ala Gln Gln Ala Phe
 530 535 540

<210> 472
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 472
 Met Leu Phe Phe Leu Ser Leu Phe Leu Ser Leu Leu Leu Thr Leu Ser
 1 5 10 15
 Leu Pro Ser Phe Leu Pro Phe Ser Phe Phe Phe Ser Leu Phe Pro
 20 25 30
 His Leu Ser Ala Cys Leu Leu Pro Ser Leu Pro Ser Pro Phe Pro
 35 40 45
 Leu Pro Pro Ser Leu Pro Ser Phe Leu Pro Ser Phe Leu Pro Ser Phe
 50 55 60
 Leu Pro Ser Leu Leu Ser Pro Ser Phe Pro Ala Phe Phe Pro Ser Phe
 65 70 75 80
 Cys Gln Leu Ala Arg Arg Ser Pro Arg Lys Ser Thr Gln Met Leu Gln
 85 90 95
 Ser Thr Ser

<210> 473
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 473
 Met Asn Tyr Ile Phe Leu Leu Met Ala Leu Pro His Leu Ile Ala Ile

1 5 10 15
 Ala Leu Thr Trp Gly Arg Tyr Ser Phe Ser Cys Leu Ala Asn Lys Glu
 20 25 30
 Thr Glu Phe Gln Arg Cys Gln Val Thr Cys Leu Leu His Thr Leu Gly
 35 40 45
 Val Leu Met Phe Asn Phe Glu Leu Arg Ser Ile Trp Leu Glu Ser Ser
 50 55 60
 Leu His
 65

<210> 474
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 474
 Met Arg His Thr Cys Ile Val Asn Ile Ala Ala Ser Leu Leu Val Ala
 1 5 10 15
 Asn Thr Trp Phe Ile Val Val Ala Ala Ile Gln Asp Asn Arg Tyr Ile
 20 25 30
 Leu Cys Lys Thr Ala Cys Val Ala Ala Thr Phe Phe Ile His Phe Phe
 35 40 45
 Tyr Leu Ser Val Phe Phe Trp Met Leu Thr Leu Gly Pro His Ala Val
 50 55 60
 Leu Ser Pro Gly Phe His Ser Ala
 65 70

<210> 475
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 475
 Met Leu Gln Arg Gly Gln His Leu Tyr Leu Val Val Phe Leu Met Val
 1 5 10 15
 Ser Phe Ile Pro Leu Leu Asn Pro Lys Gln Asp Leu Lys Lys Leu Lys
 20 25 30
 Lys Asn Arg Thr Val Arg Asn His Phe
 35 40

<210> 476

<211> 41
 <212> PRT
 <213> Homo sapiens

<400> 476
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu
 1 5 10 15
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr
 20 25 30
 Pro Leu Pro Asp Glu Ser Glu His Phe
 35 40

<210> 477
 <211> 355
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (331)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (338)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (345)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 477
 Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr
 1 5 10 15
 Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Aa Leu Arg
 20 25 30
 Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
 35 40 45
 Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
 50 55 60
 Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile
 65 70 75 80
 Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
 85 90 95
 Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
 100 105 110

Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile
 115 120 125
 Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr
 130 135 140
 Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr
 145 150 155 160
 Leu Phe Ala Tyr Leu Met Cys Leu Tyr Gly Asn His Lys Thr Ser Ala
 165 170 175
 Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp
 180 185 190
 Ala Val Phe Cys Ala Gly Asn Val Ile Ala Gln Lys Leu Thr Glu Ala
 195 200 205
 Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys
 210 215 220
 Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu Ala Tyr
 225 230 235 240
 Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro
 245 250 255
 Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val Val Asn Gly
 260 265 270
 Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe
 275 280 285
 Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro
 290 295 300
 His Leu Leu Ser Pro Ser Lys Ile Lys Thr Phe Pro Phe Leu Ser Leu
 305 310 315 320
 Gly Asn Val Glu Phe Cys Phe Leu Val Val Xaa Leu Val Leu Cys Gly
 325 330 335
 Phe Xaa Val Trp Glu Ile Pro Ile Xaa Gly Ser Arg Asn Thr Cys Leu
 340 345 350
 Ala Asp Gln
 355

<210> 478
 <211> 46
 <212> PRT
 <213> Homo sapiens
 <400> 478

Met Gly Arg Gln Ala Leu Leu Leu Leu Ala Leu Cys Ala Thr Gly Ala
 1 5 10 15

Gln Gly Leu Tyr Phe His Ile Gly Glu ThrGlu Lys Arg Cys Phe Ile
 20 25 30

Glu Glu Ile Pro Asp Glu Thr Met Val Ile Gly Gln Ala Gly
 35 40 45

<210> 479
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 479
 Met Leu Ile Ser Val Asp Ser Asn Val Pro Val Val Phe Leu Leu Leu
 1 5 10 15

Phe Ile Leu Val Ile Leu Cys His Met Glu Cys Lys Gly His Ile Tyr
 20 25 30

Ile Cys Val Cys Val Cys Val Tyr Met Tyr Ile Phe Lys Asn Ile
 35 40 45

<210> 480
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 480
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Le
 1 5 10 15

Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
 20 25 30

Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
 35 40 45

Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
 50 55 60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
 65 70 75 80

Pro Lys Arg Lys Asn Thr Trp Asn Phe Leu Lys Cys Ala Tyr Met Val
 85 90 95

Met Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr Phe
 100 105 110

Ser Ser Gln Val Leu Leu Pro Leu Leu
 115 120

<210> 481
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met Thr Ala Trp Ile Leu Leu Pro Val Ser Leu Ser Ala Phe Ser Ile
 1 5 10 15
 Thr Gly Ile Trp Thr Val Tyr Ala Met Ala Val Met Asn His His Val
 20 25 30
 Cys Pro Val Glu Asn Trp Ser Tyr Asn Glu Ser Cys Pro Pro Asp Pro
 35 40 45
 Ala Glu Gln Gly Gly Pro Lys Thr Cys Cys Thr Leu Asp Asp Val Pro
 50 55 60
 Leu Ile Ser Gly Pro Asp Leu Pro Pro Ala Leu Arg Ala Ala Pro Gly
 65 70 75 80
 Ala Glu Ser Ala Leu Leu Gly
 85

<210> 482
 <211> 116
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 482
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe
 1 5 10 15
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp
 20 25 30
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro
 35 40 45
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro
 50 55 60
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser
 65 70 75 80
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala
 85 90 95

Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg
 100 105 110

Gly Trp Thr Arg
 115

<210> 483
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 483
 Met Pro Trp His Val Cys Phe Phe Leu Ser Gly Leu LeuPhe Pro Ser
 1 5 10 15
 Pro Gln Thr Ser Leu Gln His Leu Cys Leu Leu Thr Ser Leu Ile Leu
 20 25 30
 Gly Val Thr Ile Ser Ala Tyr Glu His Ala Ile Asn Leu ProSer Leu
 35 40 45
 Gln Asn Ser Leu Leu Thr Ser His Pro Ser Val Ala Ala Leu Ser Leu
 50 55 60
 Leu Ser Ser Ser Leu Gln Gln Asn Ser Leu Lys Glu Leu Leu Ala Gly
 65 70 75 80
 His Ser Gly Ser Leu Leu
 85

<210> 484
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 484
 Gly Leu Leu Tyr Ile Met Tyr Cys Asn Ile
 1 5 10

<210> 485
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 485
 Met Val Lys Trp Ile Ile Leu Ser Cys Leu Ile Leu Lys Gly Lys Arg
 1 5 10 15
 Thr Leu Asn Ser Ser Thr Phe Tyr Ala Ala Asn Lys Ser SerThr Ile
 20 25 30

Asn Arg Asn Leu Ser Trp Gln Ala Leu Pro Phe Thr His
35 40 45

<210> 486
<211> 38
<212> PRT
<213> Homo sapiens

<400> 486
Met Leu Lys Leu Ala Thr Ile Leu Leu Thr Leu Leu Leu Lys Asn Leu
1 5 10 15
Asp Ala Gly Leu Thr Asp Lys Leu Ser Arg Ser Asn Phe Ile Thr Asp
20 25 30
Phe Ile Leu Thr Lys Tyr
35

<210> 487
<211> 43
<212> PRT
<213> Homo sapiens

<400> 487
Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys
1 5 10 15
Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu
20 25 30
Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn
35 40

<210> 488
<211> 44
<212> PRT
<213> Homo sapiens

<400> 488
Met Pro Cys His Gly Leu Leu Ala Gln Gly Leu Ser Leu Ala Pro Leu
1 5 10 15
Pro Pro Trp Ala Leu Cys Cys Val Gly Val Ser Arg Ala Leu Gln Asp
20 25 30
Ile Gln Gln His Pro Arg Pro Pro Ala Pro Cys Gln
35 40

<210> 489
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 489
 Met Ala Ala Leu Leu Leu Ala Gly Ile Cys Ile Leu Leu Asn Gly Val
 1 5 10 15
 Ile Pro Gln Asp Gln Ser Ile Val Arg Thr Ser Leu Ala Val Leu Gly
 20 25 30
 Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 35 40 45
 Asn Cys Ile Pro Gln
 50

<210> 490
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 490
 Met Gln Ala Arg Trp Phe His Ile Leu Gly Met Met Met Phe Ile Trp
 1 5 10 15
 Ser Ser Ala His Gln Tyr Lys Cys Pro Cys Tyr Ser Arg Gln Ser Gln
 20 25 30
 Glu Lys

<210> 491
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 491
 Met Val His Asn Cys Leu Leu Leu Leu Lys Phe Leu Leu Leu Phe Cys
 1 5 10 15
 Phe Pro Leu Ile Ser Tyr Gln Leu Met Asn Gly Ser Leu Gln Ser Leu
 20 25 30
 Gln Arg Leu Arg Met Ile Gln Asn Val Gln Cys Ile Val Leu Asn Lys
 35 40 45
 Gln Glu Ala Glu Phe Leu Met Gly Ile Ser Phe Gln Ile Tyr Asp Trp
 50 55 60
 Ser Leu Gly Phe
 65

<210> 492
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 492
 Met Thr Ser Asn Phe Pro Phe Cys Thr Leu Ile Leu Gly Ile Ala Gln
 1 5 10 15
 Ala Gln Ala Cys Pro Gly Cys Pro Gly Asp Trp Pro Gly Leu Gly Ser
 20 25 30
 Gly Val Gly Glu Gly Leu His His Ile Arg Thr Cys Arg Thr Pro Ile
 35 40 45
 Pro Cys Ser Pro Pro Ala Pro Ala Ala Ala Cys Leu Gly Ser Gly His
 50 55 60
 Ala Arg Leu Pro Cys Val Leu Arg Leu Trp Pro Val Pro Ala Asn Leu
 65 70 75 80
 Ser Ser Pro Phe Arg Leu Glu Ala Leu His Cys Ser Phe Trp Ser Ser
 85 90 95
 Pro Leu Leu Pro Ala Pro His Leu Ala Phe Phe Gly Phe Arg Asp Leu
 100 105 110
 Leu Thr Asp Phe Leu Leu Ala Ala Cys Leu Leu Thr Phe Gln Lys Thr
 115 120 125
 Pro Leu Glu Leu Pro Met Ala Val Val His Leu Leu Val Ala Thr Pro
 130 135 140
 Cys Tyr Gln Met Leu Asp Asn Leu Pro Leu Pro Ser Ala Ala Ala Asn
 145 150 155 160
 Trp Cys

<210> 493
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 493
 Met Gln Pro Ala Cys Leu Ala Pro Cys Leu Asp Ala Leu Thr Ser Phe
 1 5 10 15
 Cys Leu Gly Leu Leu Lys Leu Thr Phe Cys Leu Ala Phe Phe Pro Ser
 20 25 30
 Gly Val Leu Glu Gly Glu Cys Ser Phe Phe Thr Met Ser Arg Ser Leu

35 40 45
 Ser His Pro Arg Thr Leu His Arg Tyr Thr Thr Glu Arg Pro Ala His
 50 55 60
 Ser Arg His
 65

<210> 494
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 494
 Met Leu Leu Phe Ser Ser Arg Phe Ile Met Phe Leu Trp Pro Pro Val
 1 5 10 15
 Ser Gly Val Cys Leu Ser Phe Ile Arg Asp Arg Ser Phe Leu Pro Met
 20 25 30
 Cys His Phe Ile Tyr Val Leu Ile Leu Cys Asn Ser Ile Ala Leu
 35 40 45

<210> 495
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 495
 Met Thr Ala Met Ser Ile His Leu Phe Cys Thr Ala Leu Ser Cys Gly
 1 5 10 15
 Ser Ser Gly Gln Cys Asn Lys Ala Ile Lys Arg Asn Lys Ile Ser Asn
 20 25 30
 Asp Trp Lys Asp Val Asn Val Ser Ser Phe Ile Glu Asn Met Ile His
 35 40 45
 Arg Tyr Thr Tyr Thr Asn Ala Leu Asn Ser
 50 55

<210> 496
 <211> 292
 <212> PRT
 <213> Homo sapiens

<400> 496
 Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala
 1 5 10 15
 Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val

20	25	30
Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn 35 40 45		
Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu 50 55 60		
Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu 65 70 75 80		
Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu 85 90 95		
Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln 100 105 110		
Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr 115 120 125		
Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala 130 135 140		
Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu 145 150 155 160		
Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg 165 170 175		
Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr 180 185 190		
Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn 195 200 205		
His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala 210 215 220		
Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg 225 230 235 240		
Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser 245 250 255		
Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg 260 265 270		
Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys 275 280 285		
Phe Val Gly Lys 290		

<210> 497

<211> 121

<212> PRT
<213> Homo sapiens

<400> 497

Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met
1 5 10 15
Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg
20 25 30
Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr
35 40 45
Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met
50 55 60
Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg
65 70 75 80
Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu
85 90 95
Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg
100 105 110
Phe Tyr Val Ser Val Lys Val Phe Lys
115 120

<210> 498
<211> 166
<212> PRT
<213> Homo sapiens

<400> 498

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe
1 5 10 15
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala
20 25 30
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr
35 40 45
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg
50 55 60
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser
65 70 75 80
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser
85 90 95
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu
100 105 110

Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser
115 120 125
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu
130 135 140
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile
145 150 155 160
Lys Ala Phe Pro Asp Ser
165

<210> 499
<211> 79
<212> PRT
<213> Homo sapiens

<400> 499
Met Leu Ser Leu Asp Phe Leu Asp Asp Val Arg Arg Met Asn Lys Arg
1 5 10 15
Gln Val Ser Leu Ser Val Leu Phe Phe Ser Trp Leu Phe Leu Ser Leu
20 25 30
Arg Gly Cys Cys Cys Gly Ala Arg Arg Thr Pro Gly Phe Trp Cys Glu
35 40 45
Gly Leu Ser Trp Ser Asp Thr Arg Val Ile Arg Phe Leu Trp Arg Leu
50 55 60
Trp Pro Glu Ala Ala Leu Ser Ala Ser Leu Phe Leu Thr Pro Asn
65 70 75

<210> 500
<211> 50
<212> PRT
<213> Homo sapiens

<400> 500
Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile
1 5 10 15
Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp
20 25 30
Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp
35 40 45
Arg Phe
50

<210> 501
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 501
 Met Phe Cys Phe Tyr Leu Asn Tyr Phe Thr Asn Leu Phe Leu Phe Leu
 1 5 10 15
 Thr Cys Ser Arg Ser Glu Ser Leu Ser Ser Pro Thr Gly Pro Tyr Ser
 20 25 30
 Gly Phe Pro Phe Leu Lys Ser Pro Pro Val Arg Asn Ser Leu Asn Lys
 35 40 45
 Gly Pro Leu Leu Val Gln Tyr Tyr Ser Phe Ser Ser His Leu Arg Val
 50 55 60
 Pro Arg Lys Lys Lys Gln Val Ile Arg Val Pro Val Arg Val Pro Pro
 65 70 75 80
 Lys Ser Pro Ala Met Ser Pro Pro Ser Ser Pro Arg Phe His Phe Phe
 85 90 95
 Thr Phe Ser Gly Pro Phe Pro Asn Ser Tyr
 100 105

<210> 502
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 502
 Met Pro Val Leu Pro Gly Arg Thr Thr Ala Leu Leu Ser Leu Thr Leu
 1 5 10 15
 Ala Phe Ala Val Pro Cys Ser Gly Val Glu Ala Gly Pro Cys Val Pro
 20 25 30
 Arg Ser His Gly Cys Ser Ser Trp Glu Ala Ser Val Cys Val Thr Ser
 35 40 45
 Ser Thr Pro Gly Gly Ser Trp Arg Ala Arg Ala Leu Phe Pro Ser Ala
 50 55 60
 Ala Trp His Arg Xaa Ala Ala Trp Asp Ser Pro Trp Thr Gln Thr Gly
 65 70 75 80
 Asp Phe Ala Arg Gly Ala Met Gly Gly Ala Gly Ala Leu Pro Gly Gly
 85 90 95

Cys Val Cys Ile Ser Gly Arg Pro Arg Ala Gln Lys Leu Pro Ala Leu
100 105 110

<210> 503
<211> 49
<212> PRT
<213> Homo sapiens

<400> 503
Met Ile Asp Ile Cys His Ser Leu Arg Arg Glu His Phe Leu Leu Trp
1 5 10 15
Ser Phe Leu Gly Leu Phe Tyr Trp Ala Val Asn Gly Lys Ser Val Cys
20 25 30
Val Ser Leu Leu His Pro Lys His Leu Gly Lys Asn Glu Ser Leu Leu
35 40 45

Ile

<210> 504
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring amino acids

<400> 504
Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile Ser Phe Leu
1 5 10 15
Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser
20 25 30
Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala
35 40

<210> 505

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<211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 505
 Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val Xaa Xaa Gly Thr Gln
 1 5 10 15
 Ser Pro Leu His Leu Ala Gly Ser Cys Pro Gly Gln Thr His Leu Ser
 20 25 30
 Phe Pro Leu Gly Gln Asp Arg Gly Gln Gln Leu Gln Gln Lys Gln Gln
 35 40 45
 Asp Leu Glu Gln Glu Gly Leu Glu Ala Thr Gln Gly Leu Leu Ala Gly
 50 55 60
 Glu Trp Ala Pro Pro Leu Trp Xaa Leu Gly Ser Leu Phe Gln Ala Phe
 65 70 75 80
 Val Lys Arg Glu Ser Gln Ala Tyr Ala
 85

<210> 506
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 506
 Met Glu Arg Leu Val Leu Ser Leu Trp Ser Leu Thr Cys Arg Ala Ser
 1 5 10 15
 Pro Ala Asn Thr His Pro Arg Thr Thr Ser Arg Thr Arg Thr Leu Asp
 20 25 30
 Val Lys Thr Lys Cys Pro Val Glu Ala Val Lys Leu Ser Glu Met Leu
 35 40 45
 Pro Pro Val
 50

<210> 507
 <211> 508
 <212> PRT
 <213> Homo sapiens

<400> 507

```

Met Asp Pro Lys Leu Gly Arg Met Ala Ala Ser Leu Leu Ala Val Leu
  1          5          10          15

Leu Leu Leu Leu Leu Glu Arg Gly Met Phe Ser Ser Pro Ser Pro Pro
  20          25          30

Pro Ala Leu Leu Glu Lys Val Phe Gln Tyr Ile Asp Leu His Gln Asp
  35          40          45

Glu Phe Val Gln Thr Leu Lys Glu Trp Val Ala Ile Glu Ser Asp Ser
  50          55          60

Val Gln Pro Val Pro Arg Phe Arg Gln Glu Leu Phe Arg Met Met Ala
  65          70          75          80

Val Ala Ala Asp Thr Leu Gln Arg Leu Gly Ala Arg Val Ala Ser Val
  85          90          95

Asp Met Gly Pro Gln Gln Leu Pro Asp Gly Gln Ser Leu Pro Ile Pro
 100          105          110

Pro Val Ile Leu Ala Glu Leu Gly Ser Asp Pro Thr Lys Gly Thr Val
 115          120          125

Cys Phe Tyr Gly His Leu Asp Val Gln Pro Ala Asp Arg Gly Asp Gly
 130          135          140

Trp Leu Thr Asp Pro Tyr Val Leu Thr Glu Val Asp Gly Lys Leu Tyr
 145          150          155          160

Gly Arg Gly Ala Thr Asp Asn Lys Gly Pro Val Leu Ala Trp Ile Asn
 165          170          175

Ala Val Ser Ala Phe Arg Ala Leu Glu Gln Asp Leu Pro Val Asn Ile
 180          185          190

Lys Phe Ile Ile Glu Gly Met Glu Glu Ala Gly Ser Val Ala Leu Glu
 195          200          205

Glu Leu Val Glu Lys Glu Lys Asp Arg Phe Phe Ser Gly Val Asp Tyr
 210          215          220

Ile Val Ile Ser Asp Asn Leu Trp Ile Ser Gln Arg Lys Pro Ala Ile
 225          230          235          240

Thr Tyr Gly Thr Arg Gly Asn Ser Tyr Phe Met Val Glu Val Lys Cys
 245          250          255

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Arg Asp Gln Asp Phe His Ser Gly Thr Phe Gly Gly Ile Leu His Glu
 260 265 270
 Pro Met Ala Asp Leu Val Ala Leu Leu Gly Ser Leu Val Asp Ser Ser
 275 280 285
 Gly His Ile Leu Val Pro Gly Ile Tyr Asp Glu Val Val Pro Leu Thr
 290 295 300
 Glu Glu Glu Ile Asn Thr Tyr Lys Ala Ile His Leu Asp Leu Glu Glu
 305 310 315 320
 Tyr Arg Asn Ser Ser Arg Val Glu Lys Phe Leu Phe Asp Thr Lys Glu
 325 330 335
 Glu Ile Leu Met His Leu Trp Arg Tyr Pro Ser Leu Ser Ile His Gly
 340 345 350
 Ile Glu Gly Ala Phe Asp Glu Pro Gly Thr Lys Thr Val Ile Pro Gly
 355 360 365
 Arg Val Ile Gly Lys Phe Ser Ile Arg Leu Val Pro His Met Asn Val
 370 375 380
 Ser Ala Val Glu Lys Gln Val Thr Arg His Leu Glu Asp Val Phe Ser
 385 390 395 400
 Lys Arg Asn Ser Ser Asn Lys Met Val Val Ser Met Thr Leu Gly Leu
 405 410 415
 His Pro Trp Ile Ala Asn Ile Asp Asp Thr Gln Tyr Leu Ala Ala Lys
 420 425 430
 Arg Ala Ile Arg Thr Val Phe Gly Thr Glu Pro Asp Met Ile Arg Asp
 435 440 445
 Gly Ser Thr Ile Pro Ile Ala Lys Met Phe Gln Glu Ile Val His Lys
 450 455 460
 Ser Val Val Leu Ile Pro Leu Gly Ala Val Asp Asp Gly Glu His Ser
 465 470 475 480
 Gln Asn Glu Lys Ile Asn Arg Trp Asn Tyr Ile Glu Gly Thr Lys Leu
 485 490 495
 Phe Ala Ala Phe Phe Leu Glu Met Ala Gln Leu His
 500 505

<210> 508
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring amino acids

<400> 508

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Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu
 1              5              10              15

Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys
      20              25              30

Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu
      35              40              45

Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Asp Tyr Trp Glu Gln
      50              55              60

Leu Arg Cys Leu Xaa Glu Arg Phe Thr Ile Thr Ala Gly
      65              70              75
```

<210> 509

<211> 108

<212> PRT

<213> Homo sapiens

<400> 509

```
Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
 1              5              10              15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
      20              25              30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
      35              40              45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
      50              55              60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
      65              70              75              80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
      85              90              95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
      100              105
```

<210> 510

<211> 44

<212> PRT

<213> Homo sapiens

<400> 510

```
Met Arg Leu Arg Asn Gly Thr Val Ala Thr Ala Leu Ala Phe Ile Thr
```


Leu Gln Arg Leu Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala
 225 230 235 240
 Phe Ser Leu Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala
 245 250 255
 Ala Phe Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu
 260 265 270
 Val Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys
 275 280 285
 Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly Met
 290 295 300
 Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu Arg Ile
 305 310 315 320
 Leu His Met Glu Ala Val Met
 325

<210> 512
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 512
 Met Gly Asp Lys Leu Gly Met Ala Arg Ala Pro Ser Val Ala Leu Ala
 1 5 10 15
 Gln Leu Trp Leu Ile Cys Leu Cys ProGlu Ser Leu Ala Ser Phe Val
 20 25 30
 Gln Ala Val Pro Trp Lys Val Leu Gln Pro Ser Ser Asn Arg Ser Thr
 35 40 45
 Asp Cys Ser Pro His Met Arg Pro Thr Cys Glu ThrLeu Gly Ser Arg
 50 55 60
 Lys Ala Gln Asp Leu Val Leu Asp Thr Met Cys Leu Ser Thr Asp Asp
 65 70 75 80
 Cys Gln Gly Leu Ile Cys Arg Gly His Arg Ser
 85 90

<210> 513
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 513
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln

1	5	10	15
Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Glu Trp Gly Ala Arg	20	25	30
Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile	35	40	45
Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Ser Val Cys Ser	50	55	60
Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp	65	70	75
Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr	85	90	95
Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn	100	105	110
Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser	115	120	125
Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala	130	135	140
Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu	145	150	155
Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys	165	170	175
Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr	180	185	190
His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His	195	200	205
Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val	210	215	220
Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile	225	230	235
			240
Gly Tyr Gln			

<210> 514
 <211> 301
 <212> PRT
 <213> Homo sapiens

<400> 514
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30
 Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45
 Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60
 Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu
 65 70 75 80
 Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe
 85 90 95
 Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met
 100 105 110
 Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln
 115 120 125
 Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val
 130 135 140
 Leu His Val Ser Trp Asn Asp Ala Arg Ala Tyr Cys Ala Trp Arg Gly
 145 150 155 160
 Lys Arg Leu Pro Thr Glu Glu Glu Trp Gu Phe Ala Ala Arg Gly Gly
 165 170 175
 Leu Lys Gly Gln Val Tyr Pro Trp Gly Asn Trp Phe Gln Pro Asn Arg
 180 185 190
 Thr Asn Leu Trp Gln Gly Lys Phe Pro Lys Gy Asp Lys Ala Glu Asp
 195 200 205
 Gly Phe His Gly Val Ser Pro Val Asn Ala Phe Pro Ala Gln Asn Asn
 210 215 220
 Tyr Gly Leu Tyr Asp Leu Leu Gly Asn Val Trp Glu Trp Thr Ala ~~Sr~~
 225 230 235 240
 Pro Tyr Gln Ala Ala Glu Gln Asp Met Arg Val Leu Arg Gly Ala Ser
 245 250 255
 Trp Ile Asp Thr Ala Asp Gly Ser Ala Asn His Arg Ala Arg ~~Al~~ Thr
 260 265 270
 Thr Arg Met Gly Asn Thr Pro Asp Ser Ala Ser Asp Asn Leu Gly Phe
 275 280 285
 Arg Cys Ala Ala Asp Ala Gly Arg Pro Pro Gly Glu Leu
 290 295 300

<210> 515
 <211> 438
 <212> PRT
 <213> Homo sapiens

<400> 515
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
 35 40 45
 Trp Phe Ile Ala Gly Ile Phe Leu Leu Leu Thr Ile Pro Ile Ser Leu
 50 55 60
 Trp Val Ile Leu Gln His Leu Val His Tyr Thr Gln Pro Glu Leu Gln
 65 70 75 80
 Lys Pro Ile Ile Arg Ile Leu Trp Met Val Pro Ile Tyr Ser Leu Asp
 85 90 95
 Ser Trp Ile Ala Leu Lys Tyr Pro Gly Ile Ala Ile Tyr Val Asp Thr
 100 105 110
 Cys Arg Glu Cys Tyr Glu Ala Tyr Val Ile Tyr Asn Phe Met Gly Phe
 115 120 125
 Leu Thr Asn Tyr Leu Thr Asn Arg Tyr Pro Asn Leu Val Leu Ile Leu
 130 135 140
 Glu Ala Lys Asp Gln Gln Lys His Phe Pro Pro Leu Cys Cys Cys Pro
 145 150 155 160
 Pro Trp Ala Met Gly Glu Val Leu Leu Phe Arg Cys Lys Leu Gly Val
 165 170 175
 Leu Gln Tyr Thr Val Val Arg Pro Phe Thr Thr Ile Val Ala Leu Id
 180 185 190
 Cys Glu Leu Leu Gly Ile Tyr Asp Glu Gly Asn Phe Ser Phe Ser Asn
 195 200 205
 Ala Trp Thr Tyr Leu Val Ile Ile Asn Asn Met Ser Gln Leu Phe Ala
 210 215 220
 Met Tyr Cys Leu Leu Leu Phe Tyr Lys Val Leu Lys Glu Glu Leu Ser
 225 230 235 240
 Pro Ile Gln Pro Val Gly Lys Phe Leu Cys Val Lys Leu Val Val Phe
 245 250 255
 Val Ser Phe Trp Gln Ala Val Val Ile Ala Leu Leu Val Lys Val Gly
 260 265 270

Val Ile Ser Glu Lys His Thr Trp Glu Trp Gln Thr Val Glu Ala Val
 275 280 285
 Ala Thr Gly Leu Gln Asp Phe Ile Ile Cys Ile Glu Met Phe Leu Ala
 290 295 300
 Ala Ile Ala His His Tyr Thr Phe Ser Tyr Lys Pro Tyr Val Gln Glu
 305 310 315 320
 Ala Glu Glu Gly Ser Cys Phe Asp Ser Phe Leu Ala Met Trp Asp Val
 325 330 335
 Ser Asp Ile Arg Asp Asp Ile Ser Glu Gln Val Arg His Val Gly Arg
 340 345 350
 Thr Val Arg Gly His Pro Arg Lys Lys Leu Phe Pro Glu Asp Gln Asp
 355 360 365
 Gln Asn Glu His Thr Ser Leu Leu Ser Ser Ser Ser Gln Asp Ala Ile
 370 375 380
 Ser Ile Ala Ser Ser Met Pro Pro Ser Pro Met Gly His Tyr Gln Gly
 385 390 395 400
 Phe Gly His Thr Val Thr Pro Gln Thr Thr Pro Thr Thr Ala Lys Ile
 405 410 415
 Ser Asp Glu Ile Leu Ser Asp Thr Ile Gly Glu Lys Lys Glu Pro Ser
 420 425 430
 Asp Lys Ser Val Asp Ser
 435

<210> 516
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 516
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
 20 25 30
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
 50 55 60
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
 65 70 75 80
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Glu Arg Arg Asp Ile

	85		90		95
Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met					
	100		105		
<210> 517					
<211> 234					
<212> PRT					
<213> Homo sapiens					
<400> 517					
Met Arg Ile Arg Phe Thr Ser Pro His Pro Lys Asp Phe Pro Asp Glu					
1	5		10		15
Val Leu Gln Leu Ile His Glu Arg Asp Asn Ile Cys Lys Gln Ile His					
	20		25		30
Leu Pro Ala Gln Ser Gly Ser Ser Arg Val Leu Glu Ala Met Arg Arg					
	35		40		45
Gly Tyr Ser Arg Glu Ala Tyr Val Glu Leu Val His His Ile Arg Glu					
	50		55		60
Ser Ile Pro Gly Val Ser Leu Ser Ser Asp Phe Ile Ala Gly Phe Cys					
	65		70		75
Gly Glu Thr Glu Glu Asp His Val Gln Thr Val Ser Leu Leu Arg Glu					
	85		90		95
Val Gln Tyr Asn Met Gly Phe Leu Phe Ala Tyr Ser Met Arg Gln Lys					
	100		105		110
Thr Arg Ala Tyr His Arg Leu Lys Asp Asp Val Pro Glu Glu Val Lys					
	115		120		125
Leu Arg Arg Leu Glu Glu Leu Ile Thr Ile Phe Arg Glu Glu Ala Thr					
	130		135		140
Lys Ala Asn Gln Thr Ser Val Gly Cys Thr Gln Leu Val Leu Val Glu					
	145		150		155
Gly Leu Ser Lys Arg Ser Ala Thr Asp Leu Cys Gly Arg Asn Asp Gly					
	165		170		175
Asn Leu Lys Val Ile Phe Pro Asp Ala Glu Met Glu Asp Val Asn Asn					
	180		185		190
Pro Gly Leu Arg Val Arg Ala Gln Pro Gly Asp Tyr Val Leu Val Lys					
	195		200		205
Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His Val Leu Cys Arg					
	210		215		220
Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys					
	225		230		

<210> 518
 <211> 470
 <212> PRT
 <213> Homo sapiens

<400> 518
 Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Trp
 1 5 10 15
 Ser Ser Arg Gly Ala Gly Leu Leu Leu Leu Leu Gly Gln Val Ala Asp
 20 25 30
 Gly Leu Cys Thr Pro Leu Val Gly Tyr Glu Ala Asp Arg Ala Ala Ser
 35 40 45
 Cys Cys Ala Arg Tyr Gly Pro Arg Lys Ala Trp His Leu Val Gly Thr
 50 55 60
 Val Cys Val Leu Leu Ser Phe Pro Phe Ile Phe Ser Pro Cys Leu Gly
 65 70 75 80
 Cys Gly Ala Ala Thr Pro Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro
 85 90 95
 Phe Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His
 100 105 110
 Leu Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu
 115 120 125
 Leu Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val
 130 135 140
 Tyr Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val
 145 150 155 160
 Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp
 165 170 175
 Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala
 180 185 190
 Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro
 195 200 205
 His Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr
 210 215 220
 Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe
 225 230 235 240
 Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu
 245 250 255

Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro
 260 265 270
 Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe
 275 280 285
 Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn
 290 295 300
 Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
 305 310 315 320
 Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val
 325 330 335
 Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met
 340 345 350
 Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val Tyr
 355 360 365
 Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met
 370 375 380
 Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala
 385 390 395 400
 Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val
 405 410 415
 Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr
 420 425 430
 Arg Leu Arg Arg Ser Arg Gly Gly Glu His Arg Thr Pro Ser Glu Gly
 435 440 445
 Glu Gly Ile Ser Thr Ala Pro Pro Pro Cys Trp Asn Glu Thr Gln Pro
 450 455 460
 Gln Gly Gly Ala Lys Leu
 465 470

<210> 519
 <211> 260
 <212> PRT
 <213> Homo sapiens

<400> 519
 Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly
 1 5 10 15
 Leu Leu Val Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu
 20 25 30
 Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro

35	40	45
Pro Leu Ala Glu Thr Gly Ala	Pro Arg Arg Phe Arg Arg Ser Val Pro	
50	55	60
Arg Gly Glu Ala Ala Gly Ala Val Gln Asp Leu Ala Arg Ala Leu Ala		
65	70	75
His Leu Leu Glu Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln		
85	90	95
Glu Ala Glu Asp Gln Gln Ala Arg Val Leu Ala Gln Leu Leu Arg Val		
100	105	110
Trp Gly Ala Pro Arg Asn Ser Asp Pro Ala Leu Gly Leu Asp Asp Asp		
115	120	125
Pro Asp Ala Pro Ala Ala Gln Leu Ala Arg Ala Leu Leu Arg Ala Arg		
130	135	140
Leu Asp Pro Ala Ala Leu Ala Ala Gln Leu Val Pro Ala Pro Val Pro		
145	150	155
Ala Ala Ala Leu Arg Pro Arg Pro Pro Val Tyr Asp Asp Gly Pro Ala		
165	170	175
Gly Pro Asp Ala Glu Glu Ala Gly Asp Glu Thr Pro Asp Val Asp Pro		
180	185	190
Glu Leu Leu Arg Tyr Leu Leu Gly Arg Ile Leu Ala Gly Ser Ala Asp		
195	200	205
Ser Glu Gly Val Ala Ala Pro Arg Arg Leu Arg Arg Ala Ala Asp His		
210	215	220
Asp Val Gly Ser Glu Leu Pro Pro Glu Gly Val Leu Gly Ala Leu Leu		
225	230	235
Arg Val Lys Arg Leu Glu Thr Pro Ala Pro Gln Val Pro Ala Arg Arg		
245	250	255
Leu Leu Pro Pro		
260		

<210> 520
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 520
 Met His Leu Cys Ile Cys Ala Val Trp Val Leu Val Ala Leu Leu Arg
 1 5 10 15
 Met His Gly Ala Ser Pro Ala Gln Thr Ser Gly Thr Arg Ser Gly Asn
 20 25 30

Gly Gly Cys Arg Arg His Gly Ala Gly Gln Gly Arg Gly Ala Ala Thr
 35 40 45
 Gln Pro Leu Arg Pro Pro Arg Gly Thr Ala Ser Gly Gln Leu Met Ala
 50 55 60
 Leu Leu Ser Ala Leu Leu Pro Arg Leu Ser Gly Ser Ser Thr Pro Met
 65 70 75 80
 Met Ala His Gly Arg Pro Ala Pro Pro Gln Trp Ser Arg Val Ser
 85 90 95

<210> 521
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 521
 Met Asn Leu Ser Phe Leu Ser Phe Phe Leu Phe Phe Tyr Leu Leu Trp
 1 5 10 15
 Ser Pro Ala Glu Ser Val Tyr Lys Lys Gly Met Val Lys Lys Asn Leu
 20 25 30
 Ser His Ser Ile Val Glu Lys Ile Lys
 35 40

<210> 522
 <211> 163
 <212> PRT
 <213> Homo sapiens

<400> 522
 Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1 5 10 15
 Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
 20 25 30
 Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
 35 40 45
 Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly Phe Gly
 50 55 60
 Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln Ser Asn
 65 70 75 80
 Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu Gly Cys
 85 90 95
 Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser Leu Val

	100		105		110										
Ser	Leu	Ala	Gly	Ser	Val	Tyr	Leu	Ala	Trp	Ile	Leu	Phe	Phe	Val	Leu
	115						120				125				
Tyr	Asp	Phe	Cys	Ile	Val	Cys	Ile	Thr	Thr	Tyr	Ala	Ile	Asn	Val	Ser
	130					135					140				
Leu	Met	Trp	Leu	Ser	Phe	Arg	Lys	Val	Gln	Glu	Pro	Gln	Gly	Lys	Ala
145					150					155					160
Lys Arg His															

<210> 523
 <211> 113
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (38)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 523															
Met	Arg	Pro	Leu	Leu	Leu	Gly	Gly	Tyr	Trp	Val	Leu	Cys	Leu	Ser	Val
1				5					10					15	
Leu	Gly	His	Ala	Ala	Leu	Tyr	His	Phe	Trp	Leu	Arg	Glu	Glu	Gly	Lys
			20					25					30		
Gly	Pro	Pro	Gln	Val	Xaa	Ser	Val	Leu	Ala	Leu	Ala	Leu	Pro	Ala	Gly
			35				40					45			
Ser	Cys	Ala	Pro	Gly	Leu	Pro	Phe	Pro	Gly	Pro	Leu	Ile	Pro	Thr	Gln
	50					55					60				
Leu	Leu	Phe	Ala	Leu	Glu	Trp	Gly	Thr	Pro	Thr	Pro	Leu	Arg	Asp	His
65					70					75				80	
Pro	Pro	His	Ser	Met	His	Ser	Ala	Pro	Gln	Asn	Pro	Pro	Val	Phe	Leu
				85					90					95	
Gly	Thr	His	Thr	Cys	Pro	Pro	Ser	Trp	Tyr	Phe	Arg	Leu	Ile	Pro	Gln
			100					105					110		
Ala															

<210> 524
 <211> 161
 <212> PRT
 <213> Homo sapiens

<400> 524

Met Ala Leu Ser Leu Thr Leu Cys Phe Val Met Phe Trp Thr Pro Asn
1 5 10 15
Val Ser Glu Lys Ile Leu Ile Asp Ile Ile Gly Val Asp Phe Ala Phe
20 25 30
Ala Glu Leu Cys Val Val Pro Leu Arg Ile Phe Ser Phe Phe Pro Val
35 40 45
Pro Val Thr Val Arg Ala His Leu Thr Gly Trp Leu Met Thr Leu Lys
50 55 60
Lys Thr Phe Val Leu Ala Pro Ser Ser Val Leu Arg Ile Ile Val Leu
65 70 75 80
Ile Ala Ser Leu Val Val Leu Pro Tyr Leu Gly Val His Gly Ala Thr
85 90 95
Leu Gly Val Gly Ser Leu Leu Ala Gly Phe Val Gly Glu Ser Thr Met
100 105 110
Val Ala Ile Ala Ala Cys Tyr Val Tyr Arg Lys Gln Lys Lys Lys Met
115 120 125
Glu Asn Glu Ser Ala Thr Glu Gly Glu Asp Ser Ala Met Thr Asp Met
130 135 140
Pro Pro Thr Glu Glu Val Thr Asp Ile Val Glu Met Arg Glu Glu Asn
145 150 155 160
Glu

<210> 525

<211> 348

<212> PRT

<213> Homo sapiens

<400> 525

Met Asn Met Thr Gln Ala Arg Val Leu Val Ala Ala Val Val Gly Leu
1 5 D 15
Val Ala Val Leu Leu Tyr Ala Ser Ile His Lys Ile Glu Glu Gly His
20 25 30
Leu Ala Val Tyr Tyr Arg Gly Gly Ala Leu Leu Thr Ser Pro Ser Gly
35 40 45
Pro Gly Tyr His Ile Met Leu Pro Phe Ile Thr Thr Phe Arg Ser Val
50 55 60
Gln Thr Thr Leu Gln Thr Asp Glu Val Lys Asn Val Pro Cys Gly Thr
65 70 75 80

Ser Gly Gly Val Met Ile Tyr Ile Asp Arg Ile Glu Val Val Asn Met
 85 90 95
 Leu Ala Pro Tyr Ala Val Phe Asp Ile Val Arg Asn Tyr Thr Ala Asp
 100 105 110
 Tyr Asp Lys Thr Leu Ile Phe Asn Lys Ile His His Glu Leu Asn Gln
 115 120 125
 Phe Cys Ser Ala His Thr Leu Gln Glu Val Tyr Ile Glu Leu Phe Asp
 130 135 140
 Gln Ile Asp Glu Asn Leu Lys Gln Ala Leu Gln Lys Asp Leu Asn Leu
 145 150 155 160
 Met Ala Pro Gly Leu Thr Ile Gln Ala Val Arg Val Thr Lys Pro Lys
 165 170 175
 Ile Pro Glu Ala Ile Arg Arg Asn Phe Glu Leu Met Glu Ala Glu Lys
 180 185 190
 Thr Lys Leu Leu Ile Ala Ala Gln Lys Gln Lys Val Val Glu Lys Glu
 195 200 205
 Ala Glu Thr Glu Arg Lys Lys Ala Val Ile Glu Ala Glu Lys Ile Ala
 210 215 220
 Gln Val Ala Lys Ile Arg Phe Gln Gln Lys Val Met Glu Lys Glu Thr
 225 230 235 240
 Glu Lys Arg Ile Ser Glu Ile Glu Asp Ala Ala Phe Leu Ala Arg Glu
 245 250 255
 Lys Ala Lys Ala Asp Ala Glu Tyr Tyr Ala Ala His Lys Tyr Ala Thr
 260 265 270
 Ser Asn Lys His Lys Leu Thr Pro Glu Tyr Leu Glu Leu Lys Lys Tyr
 275 280 285
 Gln Ala Ile Ala Ser Asn Ser Lys Ile Tyr Phe Gly Ser Asn Ile Pro
 290 295 300
 Asn Met Phe Val Asp Ser Ser Cys Ala Leu Lys Tyr Ser Asp Ile Arg
 305 310 315 320
 Thr Gly Arg Glu Ser Ser Leu Pro Ser Lys Glu Ala Leu Glu Pro Ser
 325 330 335
 Gly Glu Asn Val Ile Gln Asn Lys Glu Ser Thr Gly
 340 345

<210> 526
 <211> 44
 <212> PRT

<213> Homo sapiens

<400> 526

Met Pro Leu Cys Gly Leu Tyr Cys Leu Arg Ile Leu Met Phe Pro Leu
1 5 10 15

Arg Ser Ala Asn Ser Val Pro Leu Gln Cys Leu Pro Pro Ser Ser Leu
20 25 30

Ala Asn Lys Asp Ser His Phe Arg Ala Pro Arg Lys
35 40

<210> 527

<211> 50

<212> PRT

<213> Homo sapiens

<400> 527

Met Pro Gly Ile Leu Ala Gly Ile Pro Val Lys Asp Leu Cys Leu Ser
1 5 10 15

Leu Leu Gln Gly Phe Arg Leu Leu Leu Leu Cys Val Cys Pro Gly Trp
20 25 30

Leu Ser Gly Trp Met Gly Gly Gln Lys Gly Ser Pro Arg Ile Val Asp
35 40 45

Ile Gly
50

<210> 528

<211> 206

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Met Ala Ser His Gly Leu Cys Pro Cys Leu Leu Met Gly Thr Gly Trp
1 5 10 15

Gly Leu Trp Thr Leu Leu Pro Asp Leu Glu Val Met Ala Gly Lys Gly
20 25 30

Arg Met Pro Phe Ala Gly Ile Ser Val Thr Ser Gly Phe Leu Arg Ser
35 40 45

Leu Lys Arg Ala Pro Leu Pro His Thr Gly Ser Pro Asp Pro Arg Pro
50 55 60

Ser Gly Ile Trp Ser Gly Val Arg Thr Thr Ser Glu Glu Ala Gly Ala
 65 70 75 80
 Thr Ser Thr Gln Ile Ser Thr Ala Ala Pro Arg Phe His Ser Arg Arg
 85 95
 Lys Gly Pro Lys Arg Asn Leu Ala Pro Gln Leu Arg Val Leu Val His
 100 105 110
 Arg Thr Val Pro Pro Gly Gln Leu Val Tyr Ala Pro Gln Thr Val Asp
 115 120 125
 Ser Leu Arg Gly Thr Leu Leu Arg Pro Pro Ala Trp Leu Leu Xaa Gln
 130 135 140
 Val Pro Cys Phe Tyr Ser Gly Gln Pro Leu Leu Val Ser Ala Ser Val
 145 150 155 160
 Leu Cys Arg Asp Leu Met Gln Phe Leu Phe Leu Leu Lys Ser Tyr Leu
 165 170 175
 Leu Pro Phe Leu Glu Val Cys Arg Ile Gly Trp Glu Gln Ile Gln Arg
 180 185 190
 Ile Leu Gly Ala Gly Leu Trp Arg Gln Lys Glu Gly Asn Gly
 195 200 205

<210> 529
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 529
 Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
 1 5 10 15
 Arg Pro Ala Ser Ala Ala Pro Met Gly Gly Pro Glu Leu Ala Gln His
 20 25 30
 Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
 35 40 45
 Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
 50 55 60
 Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
 65 70 75 80
 Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
 85 90 95
 Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
 100 105 110
 Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp

115 120 125
 Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
 130 135 140
 Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Ser
 145 150 155 160
 His Ile Leu Trp Ala Leu Thr Gly His Val Gln Arg Gln Arg Arg Glu
 165 170 175
 Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg
 180 185 190

<210> 530
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 530
 Met Ser Arg Phe Ile Leu Asn His Leu Val Leu Ala Ile Pø Leu Arg
 1 5 10 15
 Val Leu Val Val Leu Trp Ala Phe Val Leu Gly Leu Ser Arg Val Met
 20 25 30
 Leu Gly Arg His Asn Val Thr Asp Val Ala Phe Gly Phe Phe Le Gly
 35 40 45
 Tyr Met Gln Tyr Ser Ile Val Asp Tyr Cys Trp Leu Ser Pro His Asn
 50 55 60
 Ala Pro Val Leu Phe Leu Leu Trp Ser Gln Arg
 65 70 75

<210> 531
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 531
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser HisCys Leu Pro Pro Tyr
 20 25 30
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
 35 40 45
 Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro SerPhe Ile
 50 55 60

Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu
65 70 75 80

Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser
85 90 95

Gly

<210> 532

<211> 187

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring amino acids

<400> 532

Met Gly Phe Phe Leu Val Leu Val Met Glu Gln Ile Thr Leu Ala Tyr
1 5 10 15

Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu Thr Arg Ala Leu Leu
20 25 30

Gly Thr Val Asn Gly Gly Pro Gln His Trp His Asp Gly Pro Gly Val
35 40 45

Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser Ala Leu Arg Ala Cys
50 55 60

Val Leu Val Phe Ser Leu Ala Leu His SerVal Phe Glu Gly Leu Ala
65 70 75 80

Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met Glu Leu Cys Leu Ala
85 90 95

Leu Leu Leu His Lys Gly Ile Leu AlaVal Ser Leu Ser Leu Arg Leu
100 105 110

Leu Gln Ser His Leu Arg Ala Gln Val Val Ala Gly Cys Gly Ile Leu
115 120 125

Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu GlyAla Ala Leu Ala
130 135 140

Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln Ser Val Leu Glu Gly
145 150 155 160

Met Ala Ala Gly Thr Phe Xaa Tyr Ile Thr Phe Leu Glu IleLeu Leu
165 170 175

Phe His Pro Lys Phe Lys Gly Val Ser Arg Arg
180 185

<210> 533
 <211> 298
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 533

Met	Phe	Phe	Phe	Phe	Asp	Ser	Val	Gln	Val	Val	Phe	Thr	Ile	Cys	Thr
1				5					10					15	
Ala	Val	Leu	Ala	Thr	Ile	Ala	Phe	Ala	Phe	Leu	Leu	Leu	Pro	Met	Cys
			20					25					30		
Gln	Tyr	Leu	Thr	Arg	Pro	Cys	Ser	Pro	Gln	Asn	Lys	Ile	Ser	Phe	Gly
		35					40					45			
Cys	Cys	Gly	Arg	Phe	Thr	Ala	Ala	Glu	Leu	Leu	Ser	Phe	Ser	Leu	Ser
	50					55					60				
Val	Met	Leu	Val	Leu	Ile	Trp	Val	Leu	Thr	Gly	His	Trp	Leu	Leu	Met
65					70					75					80
Asp	Ala	Leu	Ala	Met	Gly	Xaa	Cys	Val	Ala	Met	Ile	Ala	Phe	Val	Arg
				85					90					95	
Leu	Pro	Ser	Leu	Lys	Val	Ser	Cys	Leu	Leu	Leu	Ser	Gly	Leu	Leu	Ile
			100					105					110		
Tyr	Asp	Val	Phe	Trp	Val	Phe	Phe	Ser	Ala	Tyr	Ile	Phe	Asn	Ser	Asn
		115					120					125			
Val	Met	Val	Lys	Val	Ala	Thr	Gln	Pro	Ala	Asp	Asn	Pro	Leu	Asp	Val
	130					135					140				
Leu	Ser	Arg	Lys	Leu	His	Leu	Gly	Pro	Asn	Val	Gly	Arg	Asp	Val	Pro
145					150				155					160	
Arg	Leu	Ser	Leu	Pro	Gly	Lys	Leu	Val	Phe	Pro	Ser	Ser	Thr	Gly	Ser
				165					170					175	
His	Phe	Ser	Met	Leu	Gly	Ile	Gly	Asp	Ile	Val	Met	Pro	Gly	Leu	Leu
			180					185					190		
Leu	Cys	Phe	Val	Leu	Arg	Tyr	Asp	Asn	Tyr	Lys	Lys	Gln	Ala	Ser	Gly
		195					200					205			
Asp	Ser	Cys	Gly	Ala	Pro	Gly	Pro	Ala	Asn	Ile	Ser	Gly	Arg	Met	Gln
	210					215					220				
Lys	Val	Ser	Tyr	Phe	His	Cys	Thr	Leu	Ile	Gly	Tyr	Phe	Val	Gly	Leu

225		230		235		240
Leu Thr Ala Thr	Val Ala Ser Arg Ile His Arg Ala Ala Gln Pro Ala					
	245			250		255
Leu Leu Tyr Leu Val Pro Phe Thr Leu Leu Pro Leu Leu Thr Met Ala						
	260			265		270
Tyr Leu Lys Gly Asp Leu Arg Arg Met Trp Ser Glu Pro Phe His Ser						
	275			280		285
Lys Ser Ser Ser Ser Arg Phe Leu Glu Val						
	290			295		

<210> 534
 <211> 232
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (36)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (82)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 534
 Met Ala Ile Ser Ile Pro Asn Arg Ile Phe Pro Ile Thr Ala Leu Thr
 1 5 10 15
 Leu Leu Ala Leu Val Tyr Ser Leu Val Leu Leu Leu Pro Phe Tyr Asn
 20 25 30

Cys Thr Glu Xaa Thr Lys Tyr Arg Arg Phe Pro Asp Trp Leu ~~Asp~~ His
 35 40 45
 Trp Met Leu Cys Arg Lys Gln Leu Gly Leu Val Ala Leu Gly Phe Ala
 50 55 60
 Phe Leu Xaa Val Leu Xaa Xaa Leu Val Ile Pro Ile Arg Tyr Tyr Val
 65 70 75 80
 Arg Xaa Arg Leu Gly Asn Leu Thr Val Thr Gln Xaa Ile Leu Lys Lys
 85 90 95
 Glu Asn Pro Phe Ser Thr Ser Ser Ala Trp Leu Ser Asp Ser Tyr Val
 100 105 110
 Ala Leu Gly Ile Leu Gly Phe Phe Leu Phe Val Leu Leu Gly Ile Thr
 115 120 125
 Ser Leu Pro Ser Val Ser Asn Ala Val Asn Trp Arg Glu Phe Arg Phe
 130 135 140
 Val Gln Ser Lys Leu Gly Tyr Leu Thr Leu Ile Leu Cys Thr Ala His
 145 150 155 160
 Thr Leu Val Tyr Gly Gly Lys Arg Phe Leu Ser Pro Ser Asn Leu Arg
 165 170 175
 Trp Tyr Leu Pro Ala Ala Tyr Val Leu Gly Leu Ile Ile Pro Cys Thr
 180 185 190
 Val Leu Val Ile Lys Phe Val Leu Ile Met Pro Cys Val Asp Asn Thr
 195 200 205
 Leu Thr Arg Ile Arg Arg Ala Gly Lys Gly Thr Gln Asn Thr Arg Lys
 210 215 220
 Ser Ile Glu Trp Lys Ile Asn Ile
 225 230

<210> 535
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 535
 Met Glu Pro Trp Ser Trp Phe Phe Phe Phe Phe Phe Phe Phe Pro Gln
 1 5 10 15
 Arg Thr Cys Gly Cys Ala Leu Cys Val Leu Phe Leu Phe Ser Ile Trp
 20 25 30
 Gly Pro His Gly Lys Glu Leu Leu Asn Ser Phe Leu Tyr Glu Leu Pro
 35 40 45

Leu Cys Ser Tyr Lys Gly Pro Phe Leu Ser
 50 55

<210> 536
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 536
 Met Thr Leu Ser Leu Gln Leu Ala Glu Leu Val His Phe Val Cys Ala
 1 5 10 15
 Phe Gln Ser Gln Trp Thr Gly Val Tyr Pro Met Met Pro Pro Leu Lys
 20 25 30
 Pro Thr Glu Pro Leu Cys Phe Ala Cys Val Pro Cys Arg Val
 35 40 45

<210> 537
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 537
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu
 1 5 10 15
 Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu
 20 25 30
 Leu Cys Gly Trp Lys Val Lys Cys Asp Asn Asp Val Cys Glu Met Pro
 35 40 45
 Ala Gln Cys Leu Glu Val Leu Lys Asn Tyr Leu Leu Pro Phe Leu Phe
 50 55 60
 Leu Pro Thr Thr Tyr Pro Leu Pro Pro Gly Ala Thr Cys
 65 70 75

<210> 538
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 538
 Met Ala Ser Pro Gly Trp His Leu Ser Cys Arg Pro Thr Gly Leu Val
 1 5 10 15
 Ser Ile Phe Leu Leu Cys Ala Pro Ala Tyr Leu His Ser Phe Val Met
 20 25 30

Thr Ser Ile Thr Leu Ile Ser Thr Lys Ile Cys Ser Pro Thr Lys Leu
 35 40 45
 Arg His Arg Thr His Phe Leu Tyr Gly Ser Ile Met Glu Leu Tyr Pro
 50 55 60
 Thr Leu Thr Phe Pro Met Thr Thr Asp Val Glu Asn Leu Asn Leu Asp
 65 70 75 80
 Ser Ser Arg

<210> 539
 <211> 73
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 539
 Met Gly Phe Trp Cys Gly Cys Pro Phe Cys Leu Leu Val Phe Leu Leu
 1 5 10 15
 Thr Val Arg Thr Arg Ser Phe Xaa Ser Val Gly Val Cys Trp Arg Ser
 20 25 30
 Thr Pro Asp Pro Leu Cys Leu Gly Ile Ser Ser Arg Ser Cys Arg Thr
 35 40 45
 Ala Asp Ile Gly Glu Gln Gln Met Leu Leu Pro Asp Arg Ser Ser Gly
 50 55 60
 Ser Phe Val Ser Glu Tyr Pro Ala Met
 65 70

<210> 540
 <211> 152
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (81)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (86)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (93)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (110)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 540
 Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu
 1 5 10 15
 Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu
 20 25 30
 Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg
 35 40 45
 Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly
 50 55 60
 Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr
 65 70 75 80
 Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro
 85 90 95
 Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg
 100 105 110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu
115 120 125
Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val
130 135 140
Leu Gly Phe Pro Ser Ala Ser Arg
145 150

<210> 541
<211> 88
<212> PRT
<213> Homo sapiens

<400> 541
Met Val Ala Gly Phe Val Phe Tyr Leu Gly Val Phe Val Val Cys His
1 5 10 15
Gln Leu Ser Ser Ser Leu Asn Ala Thr Tyr Arg Ser Leu Val Ala Arg
20 25 30
Glu Lys Val Phe Trp Asp Leu Ala Ala Thr Arg Ala Val Phe Gly Val
35 40 45
Gln Ser Thr Ala Ala Ala Val Gly Ser Ala Gly Gly Pro Cys Ala Ala
50 55 60
Cys Arg Gln Gly Ala Trp Pro Ala Glu Leu Val Leu Val Ser His His
65 70 75 80
Asp Ser Asn Gly Ile Leu Leu Leu
85

<210> 542
<211> 340
<212> PRT
<213> Homo sapiens

<400> 542
Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
1 5 10 15
Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
20 25 30
Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
35 40 45
Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
50 55 60
Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
65 70 75 80

Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu
 145 150 155 160
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu
 165 170 175
 Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln
 180 185 190
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg
 195 200 205
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr
 210 215 220
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala
 225 230 235 240
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg
 245 250 255
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile
 260 265 270
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro
 275 280 285
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His
 290 295 300
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp
 305 310 315 320
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser
 325 330 335
 Ile Lys Glu Lys
 340

<210> 543
 <211> 64
 <212> PRT

<213> Homo sapiens

<400> 543

```
Met Val Arg His Ile Arg Glu Arg Arg Arg Gln Pro Leu Ala Phe Gln
  1              5              10              15

Arg Val Leu Leu Ser Leu Cys Leu Leu Glu Gly Ile Trp His Ser Pro
      20              25              30

Ala Ala Ala Ala Gly Gly Gly Ser His Cys Ser Ser Trp Pro Ser Leu
      35              40              45

Tyr Thr Thr Phe Gln Arg Val Ser Leu Leu Glu Leu Asp Leu Gly Leu
  50              55              60
```

<210> 544

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 544

```
Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa
  1              5              10              15

Val Leu Leu Phe Leu Tyr Cys Leu Ala Gln Ser Phe Ala Tyr Ser Arg
      20              25              30

His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp
      35              40
```

<210> 545

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 545

```
Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys Arg
  1              5              10              15

Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Gly Glu Ser
```

20										25					30															
Thr	Glu	Ile	Pro	Pro	Tyr	Val	Met	Lys	Cys	Pro	Ser	Asn	Gly	Leu	Cys															
		35					40					45																		
Ser	Arg	Leu	Pro	Ala	Asp	Cys	Ile	Asp	Cys	Thr	Thr	Asn	Phe	Ser	Cys															
	50					55					60																			
Thr	Tyr	Gly	Lys	Pro	Val	Thr	Phe	Asp	Cys	Ala	Val	Lys	Pro	Ser	Val															
	65				70					75					80															
Thr	Cys	Val	Asp	Gln	Asp	Phe	Lys	Ser	Gln	Lys	Asn	Phe	Ile	Ile	Asn															
				85					90					95																
Met	Thr	Cys	Arg	Phe	Cys	Trp	Gln	Leu	Pro	Glu	Thr	Asp	Tyr	Glu	Cys															
			100					105					110																	
Thr	Asn	Ser	Thr	Ser	Cys	Met	Thr	Val	Ser	Cys	Pro	Arg	Gln	Arg	Tyr															
		115					120					125																		
Pro	Ala	Asn	Cys	Thr	Val	Arg	Asp	His	Val	His	Cys	Leu	Gly	Asn	Arg															
		130				135					140																			
Thr	Phe	Pro	Lys	Met	Leu	Tyr	Cys	Asn	Trp	Thr	Gly	Gly	Tyr	Lys	Trp															
	145				150					155					160															
Ser	Thr	Ala	Leu	Ala	Leu	Ser	Ile	Thr	Leu	Gly	Gly	Phe	Gly	Ala	Asp															
			165						170					175																
Arg	Phe	Tyr	Leu	Gly	Gln	Trp	Xaa	Glu	Gly	Leu	Gly	Lys	Leu	Phe	Ser															
		180						185					190																	
Phe	Gly	Gly	Leu	Gly	Ile	Trp	Thr	Leu	Ile	Asp	Val	Leu	Leu	Ile	Gly															
		195					200					205																		
Val	Gly	Tyr	Val	Gly	Pro	Ala	Asp	Gly	Ser	Leu	Tyr	Ile																		
	210					215					220																			

<210> 546
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 546
 Met Trp Leu Thr Gln Pro Glu Ser Leu Ser Leu Cys Val Ser Val Ser
 1 5 10 15
 Gln Asp Trp Ala His Ile Leu Ala Leu Ser Ile Thr Met Leu Trp Asp
 20 25 30
 Phe Arg Glu Phe Pro His Leu
 35

<210> 547
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 547
 Met Glu Asn Val Cys Gln Ala Gly Phe Pro Ser Leu Leu His Leu Asn
 1 5 10 15
 Ile Thr Leu Thr Leu Leu Gly Leu Ala Gln Cys Tyr Leu Ala Asn Phe
 20 25 30
 Ser Ser Cys Arg Glu Gly Ser Glu His Tyr Leu Phe Phe Phe Phe
 35 40 45
 Leu Leu Glu Pro Gly Leu His Lys Ala Met Ala Lys Phe Ser
 50 55 60

<210> 548
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 548
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp
 1 5 10 15
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His
 20 25 30
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg
 35 40 45
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile
 50 55 60

<210> 549
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 549
 Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser
 1 5 10 15
 Val Phe Ile Phe Lys Phe Leu Leu Leu Phe Tyr Thr Leu His Ile Ala
 20 25 30
 Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His
 35 40 45

Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro
50 55 60

<210> 550
<211> 49
<212> PRT
<213> Homo sapiens

<400> 550
Met Ala Pro Arg Asn Gln Gly Ser Phe Ser Phe Gly Asn Phe Met Leu
1 5 10 15
Phe Leu Val Leu Ile Glu Arg Arg Tyr Leu Pro Phe Leu Ser Pro Ile
20 25 30
Leu Phe Cys Cys Ser Thr His Asn Arg Ser Ala Val Thr Ala Thr Asn
35 40 45
Leu

<210> 551
<211> 957
<212> PRT
<213> Homo sapiens

<400> 551
Met Ala Leu Leu His Trp Gly Ala Leu TrpArg Gln Leu Ala Ser Pro
1 5 10 15
Cys Gly Ala Trp Ala Leu Arg Asp Thr Pro Ile Pro Arg Trp Lys Leu
20 25 30
Ser Ser Ala Glu Thr Tyr Ser Arg Met Arg LeuLys Leu Val Pro Asn
35 40 45
His His Phe Asp Pro His Leu Glu Ala Ser Ala Leu Arg Asp Asn Leu
50 55 60
Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
65 70 75 80
Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Leu Gln Glu
85 90 95
Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro MetGlu
100 105 110
Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Ala Glu
115 120 125
Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val

130	135	140
Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu 145 150 155 160		
Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu 165 170 175		
Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu 180 185 190		
Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys 195 200 205		
Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln 210 215 220		
Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser 225 230 235 240		
Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg 245 250 255		
Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val 260 265 270		
Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile 275 280 285		
Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp 290 295 300		
Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala 305 310 315 320		
Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His 325 330 335		
Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly 340 345 350		
Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly 355 360 365		
Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val 370 375 380		
Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser 385 390 395 400		
Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys 405 410 415		
Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln 420 425 430		
Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly		

435		440		445
Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln	450	455	460	
Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His	465	470	475	480
Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala	485	490	495	
Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val	500	505	510	
Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly	515	520	525	
Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro	530	535	540	
His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg	545	550	555	560
Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys	565	570	575	
Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala	580	585	590	
Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro	595	600	605	
Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser	610	615	620	
Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys	625	630	635	640
Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro	645	650	655	
Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro	660	665	670	
Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg	675	680	685	
Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His	690	695	700	
Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu	705	710	715	720
Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His	725	730	735	
Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu				

740					745					750					
Tyr	Gly	His	Gly	Ala	Ala	Val	Ser	Cys	Val	Ala	Ile	Ser	Thr	Glu	Leu
		755					760					765			
Asp	Met	Ala	Val	Ser	Gly	Ser	Glu	Asp	Gly	Thr	Val	Ile	Ile	His	Thr
	770					775					780				
Val	Arg	Arg	Gly	Gln	Phe	Val	Ala	Ala	Leu	Arg	Pro	Leu	Gly	Ala	Thr
785						790					795				800
Phe	Pro	Gly	Pro	Ile	Phe	His	Leu	Ala	Leu	Gly	Ser	Glu	Gly	Gln	Ile
				805					810					815	
Val	Val	Gln	Ser	Ser	Ala	Trp	Glu	Arg	Pro	Gly	Ala	Gln	Val	Thr	Tyr
			820					825					830		
Ser	Leu	His	Leu	Tyr	Ser	Val	Asn	Gly	Lys	Leu	Arg	Ala	Ser	Leu	Pro
		835					840					845			
Leu	Ala	Glu	Gln	Pro	Thr	Ala	Leu	Thr	Val	Thr	Glu	Asp	Phe	Val	Leu
	850					855					860				
Leu	Gly	Thr	Ala	Gln	Cys	Ala	Leu	His	Ile	Leu	Gln	Leu	Asn	Thr	Leu
865						870					875				880
Leu	Pro	Ala	Ala	Pro	Pro	Leu	Pro	Met	Lys	Val	Ala	Ile	Arg	Ser	Val
				885					890					895	
Ala	Val	Thr	Lys	Glu	Arg	Ser	His	Val	Leu	Val	Gly	Leu	Glu	Asp	Gly
			900					905					910		
Lys	Leu	Ile	Val	Val	Val	Ala	Gly	Gln	Pro	Ser	Glu	Val	Arg	Ser	Ser
	915						920					925			
Gln	Phe	Ala	Arg	Lys	Leu	Trp	Arg	Ser	Ser	Arg	Arg	Ile	Ser	Gln	Val
	930					935					940				
Ser	Ser	Gly	Glu	Thr	Glu	Tyr	Asn	Pro	Thr	Glu	Ala	Arg			
945						950					955				

<210> 552
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 552

Met	Ala	Leu	Gly	Ile	Gln	Lys	Arg	Phe	Ser	Pro	Glu	Val	Leu	Gly	Leu
1				5					10					15	
Cys	Ala	Ser	Thr	Ala	Leu	Val	Trp	Val	Val	Met	Glu	Val	Leu	Ala	Leu
			20					25					30		
Leu	Leu	Gly	Leu	Tyr	Leu	Ala	Thr	Val	Arg	Ser	Asp	Leu	Ser	Thr	Phe
		35					40					45			

His Leu Leu Ala Tyr Ser Gly Tyr Lys Tyr Val Gly Met Ile Leu Ser
 50 55 60
 Val Leu Thr Gly Leu Leu Phe Gly Ser Asp Gly Tyr Tyr Val Ala Leu
 65 70 75 80
 Ala Trp Thr Ser Ser Ala Leu Met Tyr Phe Ile Val Arg Ser Leu Arg
 85 90 95
 Thr Ala Ala Leu Gly Pro Asp Ser Met Gly Gly Pro Val Pro Arg Gln
 100 105 110
 Arg Leu Gln Leu Tyr Leu Thr Leu Gly Ala Ala Ala Phe Gln Pro Leu
 115 120 125
 Ile Ile Tyr Trp Leu Thr Phe His Leu Val Arg
 130 135

<210> 553
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 553
 Met Arg Lys Glu Glu Gly Ile Ala His Leu Ser Ile Ala Phe Phe Val
 1 5 10 15
 Gln Val Leu Cys Leu Tyr Gln Leu Leu Pro Val Ile Leu Pro Gln Phe
 20 25 30
 Asn Leu Gly Ser Gly Lys Asn Met Asn Arg
 35 40

<210> 554
 <211> 121
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (87)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (101)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 554
 Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe
 1 5 10 15
 Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa
 20 25 30
 Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser
 35 40 45
 Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly
 50 55 60
 Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu
 65 70 75 80
 Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys
 85 90 95
 Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser
 100 105 110
 Phe Leu Xaa Ile His Trp Leu Leu Pro
 115 120

<210> 555
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 555
 Met Arg Ile His Phe Lys Ile Leu Val Leu Val Ile Tyr Phe Ile Leu
 1 5 10 15
 Leu Gly Ser Phe Ser Asp Arg Cys Ser Leu Leu Asp Cys Lys Ser Arg
 20 25 30
 Ile Gln Arg Ile Phe Ile Cys Asn Ile Leu Asn Leu Ser Leu Val Ser
 35 40 45
 Cys His Leu Cys Arg Tyr Ser Phe Asp Cys Leu Thr Arg Gly Lys Cys
 50 55 60
 Phe Pro Leu Ser Phe Pro Ala

65

70

<210> 556

<211> 68

<212> PRT

<213> Homo sapiens

<400> 556

```
Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala
  1              5              10              15

Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp
          20              25              30

Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu
          35              40              45

Gly Val Leu Leu Leu Leu Ala Ala Gly Arg Pro Gly Gly Ala Ala Val
  50              55              60

Leu Leu Ser Leu
  65
```

<210> 557

<211> 143

<212> PRT

<213> Homo sapiens

<400> 557

```
Met Ser Pro Phe His Leu Leu Gly Leu Lys Val Phe Leu Thr Trp Ala
  1              5              10              15

Leu Thr Leu Ala Gln Ile Cys Leu Tyr Phe Phe Glu Val Gln Pro Leu
          20              25              30

Gly Leu Leu Ala Leu Asn Phe Phe Cys Thr Ala Thr Ala Gly Leu Lys
          35              40              45

Glu Leu Cys Met His Pro Pro Ser Leu Ala Phe Thr Pro Glu Phe His
          50              55              60

Thr Ser Leu Ser Pro Leu Ala Ile Pro Ser Phe Cys Gly Thr Ser Val
  65              70              75              80

Ser Leu Ser Asn Ser His Thr Ile Pro Leu Ser Leu Tyr Leu Pro Phe
          85              90              95

Pro Ser Lys Ser Arg Met Pro Asp Thr Leu His Leu Leu Val His Ser
          100              105              110

Leu Pro Leu Val His Ser Gln Val Leu Pro Val Lys Asp Val Thr Ile
          115              120              125
```

Glu Trp Pro Leu Cys Gln Arg Cys Leu Gly Ser Thr Cys His Gln
 130 135 140

<210> 558
 <211> 233
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 558
 Met His Arg Gly Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser
 1 5 10 15
 Tyr Leu Ile Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val
 20 25 30
 Ser Ala Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly
 35 40 45
 Pro Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe
 50 55 60
 Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp
 65 70 75 80
 Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val
 85 90 95
 Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile
 100 105 110
 Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly
 115 120 125
 Pro Ser His Leu Asp Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu
 130 135 140
 Lys Thr Ala Ala Thr Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys
 145 150 155 160
 Cys Cys Ile Gly Lys Asp Asp His Thr Arg Val Ala Xaa Ser Ser Thr
 165 170 175
 Ala Glu Leu Phe Ser Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser
 180 185 190
 Asp Ile Ala Ala Gly Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile
 195 200 205
 Arg Asn Asn Gln Asp Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala
 210 215 220

Pro Arg Lys Leu Ile Trp Met Gln Asn
 225 230

<210> 559
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 559
 Met Phe Val Glu Arg Trp Leu Pro Cys Phe Leu Val Val Ala Val Val
 1 5 10 15
 Val Trp Val Phe Ala Cys Gly Pro Val Glu Asp Lys Glu Asp Ser Phe
 20 25 30
 Gly Trp Ser Ser Tyr Phe Leu Ala Ser Gly Leu Pro Pro Leu Leu Phe
 35 40 45
 Glu Ala Ser Gln Thr Arg Thr Val Arg Ala Gly Arg Leu Gly Val Phe
 50 55 60
 Val Cys
 65

<210> 560
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 560
 Met Gly Ser Trp Cys Ile Cys Thr Leu Leu Leu Leu Thr Asp Gly
 1 5 10 15
 Gln Gln Gly Phe Tyr Pro Gln Pro Phe Gln Ala Ala Pro Gly Arg Gln
 20 25 30
 Gln Leu Trp Gly Gly Thr Asn Pro Trp Ala Val Leu Ile Pro Glu Ser
 35 40 45
 Phe Leu Pro Tyr Thr Leu Thr Val Asn Tyr Ser Pro Ser Cys Asn Phe
 50 55 60
 Glu Phe Tyr Leu Pro Lys Met Arg Leu Ala Tyr Ile Cys Met Ser His
 65 70 75 80
 Ser His Cys Pro Tyr Leu Gly Arg Asp Ile Ile Ile Thr Leu Leu Asn
 85 90 95
 Tyr Cys Ser Ser Phe Leu Ala Glu Leu Leu Ala His Leu Val Tyr Ile
 100 105 110
 Ala

<210> 561
 <211> 82
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 561
 Met Leu Ile Ala Leu Phe Cys Ile Leu Phe Gln Ile Leu Phe Ser Ile
 1 5 10 15
 Pro Thr Arg Ile Phe Tyr Ile Phe Leu Ile Asn Lys Arg Val His Ile
 20 25 30
 Phe Thr Thr Tyr Leu Met Ser Glu Gln Lys Asn His Asp Trp Val Arg
 35 40 45
 Arg Thr Xaa Lys Leu His Arg Val Trp Leu Ile Ser Gly Lys Met Leu
 50 55 60
 Leu Val Ala Asp Ile Lys Ala Leu Ile Arg Trp Leu Trp Gly Pro Asn
 65 70 75 80
 Pro Glu

<210> 562
 <211> 90
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (29)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 562
 Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu

1 5 10 15
 Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp
 20 25 30
 Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr
 35 40 45
 Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val
 50 55 60
 Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr
 65 70 75 80
 Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln
 85 90

<210> 563
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 563
 Met Gly Cys Thr Ala Leu Leu Leu Leu Phe His Leu Cys Val Pro Cys
 1 5 10 15
 Glu Pro Tyr Gly Thr His Glu Lys Glu Leu Val Pro Gly Leu Tyr Phe
 20 25 30
 Leu Val Tyr Arg
 35

<210> 564
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 564
 Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser
 1 5 10 15
 Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser
 20 25 30
 Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr
 35 40 45

<210> 565
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 565

Met Ala Ile Ser Cys Trp Ala Ser Leu Thr Val Lys Ser Leu Tyr Cys
1 5 10 15
Leu Leu Gly Phe Trp Trp Glu Ala Val Ile Ser Ser Asn Glu Leu Pro
20 25 30
Leu Pro Trp Ile Cys Gln Glu Ala Asp Gly Asn Leu Ala Asn Ser Gly
35 40 45
Arg Tyr Gln Ala Pro Ser Ser Ala Pro Val Thr Leu Phe Tyr Thr Cys
50 55 60
Gly Ser Thr Thr Val Cys Ser Glu Gly Gln Ser Leu Pro Leu Leu Cys
65 70 75 80
Phe Ser

<210> 566

<211> 57

<212> PRT

<213> Homo sapiens

<400> 566

Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro
1 5 10 15
Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu
20 25 30
Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr
35 40 45
Arg Pro Ile Pro Ser Phe Leu Lys Ile
50 55

<210> 567

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<400> 567

Met Arg Met Arg Val Ala Val Ala Pro Arg Pro His Gln His Leu Val
1 5 10 15
Val Ser Val Ser Trp Ile Leu Ala Ile Leu Ile Ser Val Ser Gly Tyr

<220>
 <221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 569
 Met Met Gly Asn Asp Leu Leu His Leu Val Phe LeuGln Leu Ser Leu
 1 5 10 15
 Gly Val Ala Ser Gly Gly Trp Ile Leu Trp Pro Leu Arg Arg Leu Gly
 20 25 30
 Gly Ala His Thr Ser Lys Asp Xaa Asn Lys Asn Gly HisXaa Val His
 35 40 45
 Cys Leu Val Ile Thr Asn Glu Pro Leu Val Ser Xaa Lys Lys Ile Gly
 50 55 60
 Leu Ser Ser Pro His Thr Cys Pro Ser Thr Leu Gln Gln Phe
 65 70 75

 <210> 570
 <211> 53
 <212> PRT
 <213> Homo sapiens

 <400> 570
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser
 1 5 10 15
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys
 20 25 30
 Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile
 35 40 45
 Asn Arg Thr Ala Asn
 50

 <210> 571
 <211> 80
 <212> PRT
 <213> Homo sapiens

 <400> 571
 Met Ala Leu Trp Val Thr Cys Ile Leu Ser Leu Cys Thr Trp Phe Ser
 1 5 10 15
 Cys Leu Tyr Gly Ala Asp Ser Leu Ala Asn Lys Cys Leu Ser Ala Gly
 20 25 30
 Ala Thr Arg Lys Ala Phe Pro Phe Cys Val Leu Phe Arg Asp Leu Glu
 35 40 45

Val Gly Leu Gly Phe Glu Gly Phe Val Thr His Leu Ala Cys Lys Leu
50 55 60
Phe Cys Tyr Cys Glu Leu Ser Asp Ser Ala Leu Ser Leu Gly His Glu
65 70 75 80

<210> 572
<211> 320
<212> PRT
<213> Homo sapiens

<400> 572
Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
1 5 10 15
Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
20 25 30
Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
35 40 45
Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
50 55 60
Ser Leu Ala Asp Phe Ser Trp AsnAsn Ile Thr Asp Ser Leu Asp Pro
65 70 75 80
Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
85 90 95
Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser
100 105 110
Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp
115 120 125
Thr Cys Gln Leu Glu Val Ala Leu Ile GlyAla Ser Pro Arg Gly Asn
130 135 140
Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp
145 150 155 160
Cys Pro Ser Met Gln Glu Gln His Ser Ile Asp AspGlu Tyr Ala Pro
165 170 175
Ala Val Phe Gln Leu Asp Gln Leu Leu Trp Gly Ser Leu Pro Ser Gly
180 185 190
Phe Ala Gln Trp Arg Pro Val Ala Tyr Ser Gln Lys ProGly Gly Arg
195 200 205

Glu Ser Ala Leu Pro Cys Gln Ala Ser Pro Leu His Pro Ala Leu Ala
 210 215 220
 Tyr Ser Leu Pro Gln Ser Pro Ile Val Arg Ala Phe Phe Gly Ser Gln
 225 230 235 240
 Asn Asn Phe Cys Ala Phe Asn Leu Thr Phe Gly Ala Ser Thr Gly Pro
 245 250 255
 Gly Tyr Trp Asp Gln His Tyr Leu Ser Trp Ser Met Leu Leu Gly Val
 260 265 270
 Gly Phe Pro Pro Val Asp Gly Leu Ser Pro Leu Val Leu Gly Ile Met
 275 280 285
 Ala Val Ala Leu Gly Ala Pro Gly Leu Met Leu Leu Gly Gly Gly Leu
 290 295 300
 Val Leu Leu Leu His His Lys Lys Tyr Ser Glu Tyr Gln Ser Ile Asn
 305 310 315 320

<210> 573
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 573
 Met Leu Ala Leu Ser Ser Ser Phe Leu Val Leu Ser Tyr Leu Leu Thr
 1 5 10 15
 Arg Trp Cys Gly Ser Val Gly Phe Ile Leu Ala Asn Cys Phe Asn Met
 20 25 30
 Gly Ile Arg Ile Thr Gln Ser Leu Cys Phe Ile His Arg Tyr Tyr Arg
 35 40 45
 Arg Ala Pro Thr Gly Pro Trp Leu Ala Cys Thr Tyr Arg Gln Ser Cys
 50 55 60
 Ser Gly His Leu Pro Ser Val Val Gly Leu Leu Leu Phe Arg Arg Tyr
 65 70 75 80
 Ser Ser Ala Val Ser Arg Ala Gly Gln Pro Asp Trp His Thr Leu Leu
 85 90 95
 Trp Gly Pro Ser Val Trp Glu Gln Leu Ser Gly Gln His Ser Ser Gln
 100 105 110
 Arg Pro Ser
 115

<210> 574
 <211> 402
 <212> PRT
 <213> Homo sapiens

<400> 574
 Met Tyr Ser Gly Asn Arg Ser Gly Gly His Gly Tyr Trp Asp Gly Gly
 1 5 10 15
 Gly Ala Ala Gly Ala Glu Gly Pro Ala Pro Ala Gly Thr Leu Ser Pro
 20 25 30
 Ala Pro Leu Phe Ser Pro Gly Thr Tyr Glu Arg Leu Ala Leu Leu Leu
 35 40 45
 Gly Ser Ile Gly Leu Leu Gly Val Gly Asn Asn Leu Leu Val Leu Val
 50 55 60
 Leu Tyr Tyr Lys Phe Gln Arg Leu Arg Thr Pro Thr His Leu Leu Leu
 65 70 75 80
 Val Asn Ile Ser Leu Ser Asp Leu Leu Val Ser Leu Phe Gly Val Thr
 85 90 95
 Phe Thr Phe Val Ser Cys Leu Arg Asn Gly Trp Val Trp Asp Thr Val
 100 105 110
 Gly Cys Val Trp Asp Gly Phe Ser Gly Ser Leu Phe Gly Ile Val Ser
 115 120 125
 Ile Ala Thr Leu Thr Val Leu Ala Tyr Glu Arg Tyr Ile Arg Val Val
 130 135 140
 His Ala Arg Val Ile Asn Phe Ser Trp Ala Trp Arg Ala Ile Thr Tyr
 145 150 155 160
 Ile Trp Leu Tyr Ser Leu Ala Trp Ala Gly Ala Pro Leu Leu Gly Trp
 165 170 175
 Asn Arg Tyr Ile Leu Asp Val His Gly Leu Gly Cys Thr Val Asp Trp
 180 185 190
 Lys Ser Lys Asp Ala Asn Asp Ser Ser Phe Val Leu Phe Leu Phe Leu
 195 200 205
 Gly Cys Leu Val Val Pro Leu Gly Val Ile Ala His Cys Tyr Gly His
 210 215 220
 Ile Leu Tyr Ser Ile Arg Met Leu Arg Cys Val Glu Asp Leu Gln Thr
 225 230 235 240
 Ile Gln Val Ile Lys Ile Leu Lys Tyr Glu Lys Lys Leu Ala Lys Met
 245 250 255
 Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr Ile
 260 265 270

Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr Pro
 275 280 285
 Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val Tyr
 290 295 300
 Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser Leu
 305 310 315 320
 Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala Lys
 325 330 335
 Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val Met
 340 345 350
 Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Lys Val Thr Phe Asn Ser
 355 360 365
 Ser Ser Ile Ile Phe Ile Ile Thr Ser Asp Glu Ser Leu Ser Val Asp
 370 375 380
 Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln Val Arg
 385 390 395 400
 Pro Leu

<210> 575
 <211> 218
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (168)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (198)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (213)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 575
 Met Arg Ala Leu Leu Ala Leu Cys Leu Leu Leu Gly Trp Leu Arg Trp

1	5	10	15
Gly Pro Ala Gly Ala Gln Gln Ser Gly Glu Tyr Cys His Gly Trp Val	20	25	30
Asp Val Gln Gly Asn Tyr His Glu Gly Phe Gln Cys Pro Glu Asp Phe	35	40	45
Asp Thr Leu Asp Ala Thr Ile Cys Cys Gly Ser Cys Ala Leu Arg Tyr	50	55	60
Cys Cys Ala Ala Ala Asp Ala Arg Leu Glu Gln Gly Gly Cys Thr Asn	65	70	75
Asp Arg Arg Glu Leu Glu His Pro Gly Ile Thr Ala Gln Pro Val Tyr	85	90	95
Val Pro Phe Leu Ile Val Gly Ser Ile Phe Ile Ala Phe Ile Ile Leu	100	105	110
Gly Ser Val Val Ala Ile Tyr Cys Cys Thr Cys Leu Arg Pro Lys Glu	115	120	125
Pro Ser Gln Gln Pro Ile Arg Phe Ser Leu Arg Ser Tyr Gln Thr Glu	130	135	140
Thr Leu Pro Met Ile Leu Thr Ser Thr Ser Pro Arg Ala Pro Ser Arg	145	150	155
Gln Ser Ser Thr Ala Thr Ser Xaa Ser Phe Thr Gly Gly Xaa Ile Arg	165	170	175
Arg Phe Phe Ser Ala Ile Trp Phe Pro Gly Val Thr Pro Val Phe Arg	180	185	190
Leu Pro Pro Ser Ala Xaa Ala Pro Thr Gly Trp Glu Glu Leu Ser Arg	195	200	205
Leu Ser Val Pro Xaa Asp Thr Pro Arg Pro	210	215	

<210> 576

<211> 76

<212> PRT

<213> Homo sapiens

<400> 576

Met Gly Ala His Ser Phe Gly Phe Gln Leu Phe Met Ser Val Ser Val	5	10	15
Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe	20	25	30
Ala Ser Pro Pro Thr Thr Phe Met Asp Ile Gln Cys Cys Phe Ala Leu	35	40	45

Gln Leu Glu Arg Arg Asp Gly Gln Leu Val Thr Leu Ser His Ile Ala
 50 55 60

Thr Phe Ile Cys Ser Gly Lys Lys Leu Asp Arg Trp
 65 70 75

<210> 577
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 577
 Met Pro Val Pro Leu Leu Ala Ser Ala Ala Trp Cys His Leu Cys Ala
 1 5 10 15

Gly Ala Leu Pro Ala Trp Leu Trp Leu Pro Trp Arg Ala Ala Ala Ala
 20 25 30

Gln Trp His Val Cys Ala Ser His Cys Leu Pro Leu His Pro Ala Phe
 35 40 45

Ser Ala Leu Gly Pro His Pro Asp Pro Gly Arg Ala Gly Pro Gly Ala
 50 55 60

Ala Pro Arg Asp Cys Ala His Pro Glu Leu His Pro Leu Cys Leu Pro
 65 70 75 80

Arg Trp Ser Leu Gln Leu Leu Pro Arg
 85

<210> 578
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 578
 Met Met Thr Phe Phe Gly Ser His Ile Leu Leu Phe Leu Phe Cys Pro
 1 5 10 15

Leu Lys Ala Gly His Arg His Leu Val Ser Ser Ser Phe Leu Thr Val
 20 25 30

Ala Val Ser Ile Ser Lys Gly Pro Phe Phe His Ser Thr Ala Gln Lys
 35 40 45

Arg Lys Ser Arg Lys Gln Leu Pro Arg Pro Ala Phe Leu Val Pro Leu
 50 55 60

Ser Ser Gln Asn Thr Gln Thr Arg Thr Lys His His Phe Ser Phe Leu
 65 70 75 80

His Leu Ile Val Leu Gln Pro

<210> 579
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met Ala Val Pro Leu Phe Leu Tyr Ile Phe Thr Leu Leu Pro Leu Leu
 1 5 10 15
 Pro Phe Leu Leu Ser Leu Cys Phe Ser Pro Leu Thr Val Lys Arg Ser
 20 25 30
 Ser Ser Ser Glu Ser Lys Ser Ser Leu
 35 40

<210> 580
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 580
 Ile Tyr Ser Ser Gly Tyr Phe Gln Ile Tyr Asn Met Leu Leu Leu Thr
 1 5 10 15
 Ile Leu Ile Leu Leu Cys Asn Arg Thr Pro Glu Leu Ile Pro Gly Phe
 20 25 30
 Tyr Ile Arg
 35

<210> 581
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 581
 Met His Met Pro Ala Ala Pro Val Thr Val Leu Lys Leu Leu Pro Phe
 1 5 10 15
 Pro Cys Val Cys Gly Leu Gly Trp Val Pro Ile Gly Cys Val Ser Ile
 20 25 30
 Pro Ser His Leu Lys Gly Asn Leu Cys Cys Ser
 35 40

<210> 582
 <211> 484

<212> PRT

<213> Homo sapiens

<400> 582

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Met  Pro  Arg  His  Leu  Ser  Gly  Leu  Leu  Leu  Leu  Leu  Trp  Pro  Leu  Leu
  1              5              10              15

Leu  Leu  Leu  Pro  Pro  Thr  Pro  Ala  Ala  Pro  Gly  Pro  Leu  Ala  Arg  Pro
          20              25              30

Gly  Leu  Arg  Arg  Leu  Gly  Thr  Arg  Gly  Pro  Gly  Gly  Ser  Pro  Gly  Arg
          35              40              45

Arg  Pro  Val  Ser  Ala  Val  Pro  Thr  Arg  Ala  Pro  Tyr  Ser  Gly  Ala  Gly
          50              55              60

Gln  Pro  Gly  Gly  Ala  Arg  Gly  Ala  Gly  Val  Cys  Arg  Ser  Arg  Pro  Leu
          65              70              75              80

Asp  Leu  Val  Phe  Ile  Ile  Asp  Ser  Ser  Arg  Ser  Val  Arg  Pro  Leu  Glu
          85              90              95

Phe  Thr  Lys  Val  Lys  Thr  Phe  Val  Ser  Gln  Ile  Ile  Asp  Thr  Leu  Asp
          100             105             110

Ile  Gly  Ala  Ala  Asp  Thr  Arg  Val  Ala  Val  Val  Asn  Tyr  Ala  Ser  Thr
          115             120             125

Val  Lys  Ile  Glu  Phe  His  Leu  Gln  Thr  His  Ser  Asp  Lys  Gln  Ser  Leu
          130             135             140

Lys  Gln  Ala  Val  Ala  Arg  Ile  Thr  Pro  Leu  Ser  Thr  Gly  Thr  Met  Ser
          145             150             155             160

Gly  Leu  Ala  Ile  Gln  Thr  Ala  Met  Asp  Glu  Ala  Phe  Thr  Val  Glu  Ala
          165             170             175

Gly  Ala  Arg  Gly  Pro  Thr  Ser  Asn  Ile  Pro  Lys  Val  Ala  Ile  Ile  Val
          180             185             190

Thr  Asp  Gly  Arg  Pro  Gln  Asp  Gln  Val  Asn  Glu  Val  Ala  Ala  Arg  Ala
          195             200             205

Arg  Ala  Ser  Gly  Ile  Glu  Leu  Tyr  Ala  Val  Gly  Val  Asp  Arg  Ala  Asp
          210             215             220

Met  Glu  Ser  Leu  Lys  Met  Met  Ala  Ser  Glu  Pro  Leu  Asp  Glu  His  Val
          225             230             235             240

Phe  Tyr  Val  Glu  Thr  Tyr  Gly  Val  Ile  Glu  Lys  Leu  Ser  Ser  Arg  Phe
          245             250             255

Gln  Glu  Thr  Phe  Cys  Ala  Leu  Asp  Pro  Cys  Val  Leu  Gly  Thr  His  Arg
          260             265             270

Cys  Gln  His  Val  Cys  Val  Ser  Asp  Gly  Glu  Gly  Lys  His  His  Cys  Glu
          275             280             285
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Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
 290 295 300
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
 305 310 315 320
 Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
 325 330 335
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
 340 345 350
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
 355 360 365
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
 370 375 380
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
 385 390 395 400
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
 405 410 415
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
 420 425 430
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala
 435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 583
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 583
 Met Ser Arg Thr Ala Tyr Thr Val Gly Ala Leu Leu Leu Leu Leu Gly
 1 5 10 15
 Thr Leu Leu Pro Ala Ala Glu Gly Lys Lys Lys Gly Ser Gln Gly Ala
 20 25 30
 Ile Pro Pro Pro Asp Lys Ala Gln His Asn Asp Ser Glu Gln Thr Gln
 35 40 45

Ser Pro Gln Gln Pro Gly Ser Arg Asn Arg Gly Arg Gly Gln Gly Ag
 50 55 60
 Gly Thr Ala Met Pro Gly Glu Glu Val Leu Glu Ser Ser Gln Glu Ala
 65 70 75 80
 Leu His Val Thr Glu Arg Lys Tyr Leu Lys Arg Asp Trp Cys Lys Thr
 85 90 95
 Gln Pro Leu Lys Gln Thr Ile His Glu Glu Gly Cys Asn Ser Arg Thr
 100 105 110
 Ile Ile Asn Arg Phe Cys Tyr Gly Gln Cys Asn Ser Phe Tyr Ile Pro
 115 120 125
 Arg His Ile Arg Lys Glu Glu Gly Ser Phe Gln Ser Cys Ser Phe Cys
 130 135 140
 Lys Pro Lys Lys Phe Thr Thr Met Met Val Thr Leu Asn Cys Pro Glu
 145 150 155 160
 Leu Gln Pro Pro Thr Lys Lys Lys Arg Val Thr Arg Val Lys Gln Cys
 165 170 175
 Arg Cys Ile Ser Ile Asp Leu Asp
 180

<210> 584
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 584
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile
 1 5 10 15
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val
 20 25 30
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg
 35 40 45
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val
 50 55 60
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys
 65 70 75 80
 Pro Ser Ser Pro Arg Pro Arg Gly Ser Ala Ala Ser Pro Ala Pro Gly
 85 90 95
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg
 100 105 110
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser Cys Thr Arg Leu Pro Gly

115 120 125
 Leu Pro Lys Leu Glu Pro Ser Ser Thr Leu Lys Gly Gln Asp Ser Trp
 130 135 140
 Gln Met Gly His Gln Gln Asp Lys Thr Leu Trp Ser Trp Ala Ser Thr
 145 150 155 160
 Gly Gly Ser Ser

<210> 585
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Pro Leu Glu Glu Ser Phe Glu Ile Val Leu Lys Leu Val Pro Leu
 1 5 10 15
 Leu Gly Leu Glu Leu Phe Phe Phe Leu Phe Ile Ile Asn Gly Tyr Ile
 20 25 30
 Asn Val Tyr Cys Pro Ser Gln Tyr Phe Ile Tyr Ala Lys Asp Ser Leu
 35 40 45
 Ala Gly Leu Ala Leu Ile Pro Gln
 50 55

<210> 586
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys
 1 5 10 15
 Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg
 20 25 30
 Val Ser Gln Lys Arg Gly His Ile
 35 40

<210> 587
 <211> 967
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

<222> (40)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
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 <222> (169)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
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 <222> (293)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (297)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (547)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 587
 Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser
 1 5 10 15
 Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro
 20 25 30
 Val Pro Thr Leu Leu Leu Leu Xaa Ala Ala Leu Leu Xaa Val Ser Asp
 35 40 45
 Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu
 50 55 60
 Leu Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala
 65 70 75 80
 Phe Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu
 85 90 95
 Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu
 100 105 110
 Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr
 115 120 125
 Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly
 130 135 140
 Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro

145		150		155		160									
Leu	Pro	Ala	Ala	Ser	Glu	Arg	Leu	Xaa	Thr	Ala	Ala	Pro	Gly	Glu	Lys
				165					170					175	
Pro	Pro	Ala	Pro	Leu	Gln	Phe	His	Leu	Leu	Arg	Arg	Asn	Arg	Gln	Gly
			180					185					190		
Asp	Val	Gly	Gly	Thr	Cys	Gly	Val	Val	Asp	Asp	Glu	Pro	Arg	Pro	Thr
		195					200					205			
Gly	Lys	Ala	Glu	Thr	Glu	Asp	Glu	Asp	Glu	Gly	Thr	Glu	Gly	Glu	Asp
	210					215					220				
Glu	Gly	Pro	Gln	Trp	Ser	Pro	Gln	Asp	Pro	Ala	Leu	Gln	Gly	Val	Gly
225					230					235					240
Gln	Pro	Thr	Gly	Thr	Gly	Ser	Ile	Arg	Lys	Lys	Arg	Phe	Val	Ser	Ser
				245					250					255	
His	Arg	Tyr	Val	Glu	Thr	Met	Leu	Val	Ala	Asp	Gln	Ser	Met	Ala	Glu
			260					265					270		
Phe	His	Gly	Ser	Gly	Leu	Lys	His	Tyr	Leu	Leu	Thr	Leu	Phe	Ser	Val
		275					280					285			
Ala	Ala	Arg	Leu	Xaa	Lys	His	Pro	Xaa	Ile	Arg	Asn	Ser	Val	Ser	Leu
		290				295						300			
Val	Val	Val	Lys	Ile	Leu	Val	Ile	His	Asp	Glu	Gln	Lys	Gly	Pro	Glu
305					310					315					320
Val	Thr	Ser	Asn	Ala	Ala	Leu	Thr	Leu	Arg	Asn	Phe	Cys	Asn	Trp	Gln
				325					330					335	
Lys	Gln	His	Asn	Pro	Pro	Ser	Asp	Arg	Asp	Ala	Glu	His	Tyr	Asp	Thr
			340					345					350		
Ala	Ile	Leu	Phe	Thr	Arg	Gln	Asp	Leu	Cys	Gly	Ser	Gln	Thr	Cys	Asp
		355					360					365			
Thr	Leu	Gly	Met	Ala	Asp	Val	Gly	Thr	Val	Cys	Asp	Pro	Ser	Arg	Ser
	370					375					380				
Cys	Ser	Val	Ile	Glu	Asp	Asp	Gly	Leu	Gln	Ala	Ala	Phe	Thr	Thr	Ala
385					390					395					400
His	Glu	Leu	Gly	His	Val	Phe	Asn	Met	Pro	His	Asp	Asp	Ala	Lys	Gln
				405					410					415	
Cys	Ala	Ser	Leu	Asn	Gly	Val	Asn	Gln	Asp	Ser	His	Met	Met	Ala	Ser
			420					425					430		
Met	Leu	Ser	Asn	Leu	Asp	His	Ser	Gln	Pro	Trp	Ser	Pro	Cys	Ser	Ala
		435					440					445			
Tyr	Met	Ile	Thr	Ser	Phe	Leu	Asp	Asn	Gly	His	Gly	Glu	Cys	Leu	Met

450		455		460
Asp 465	Lys	Pro	Gln	Asn 470
				Pro 475
				Gly 480
Ser	Tyr	Asp	Ala	Asn 485
				Arg 490
				Gln 495
Lys	His	Cys	Pro 500	Asp
				Ala 505
				Ala 510
Gly	Thr	Ser 515	Gly	Gly 520
				Val 525
				Leu 530
Ala	Asp 530	Gly	Thr	Ser 535
				Cys 540
				Glu 545
				Gly 550
				Lys 555
Cys 545	Val	Xaa	Lys	Thr 550
				Asp 555
				Arg 560
Ser	Trp	Gly	Met	Trp 565
				Gly 570
				Asp 575
Gly	Gly	Val	Gln 580	Tyr
				Thr 585
				Met 590
Asn	Gly	Gly	Lys 595	Tyr
				Cys 600
				Glu 605
Asn	Leu	Glu	Asp	Cys 610
				Pro 615
				Asp 620
				Asn 625
				Asn 630
Gln	Cys	Glu	Ala	His 635
				Asn 640
				Glu 645
Pro	Ala	Val	Glu	Trp 650
				Ile 655
				Pro 660
Arg	Cys	Lys	Leu	Ile 665
				Cys 670
				Gln 675
Leu	Gln	Pro	Lys	Val 680
				Val 685
				Asp 690
Ser	Val	Cys	Val	Gln 695
				Gly 700
				Gln 705
Ile	Asp	Ser	Lys	Lys 710
				Phe 715
				Asp 720
				Lys 725
Gly	Ser	Thr	Cys	Lys 730
				Ile 735
				Ser 740
Gly	Tyr	His	Asp	Ile 745
				Ile 750
				Thr 755
Val	Lys	Gln	Arg	Asn 760
				Gln 765
				Arg 770
				Gly 775
				Ser 780
				Arg 785
				Asn 790
				Asn 795
				Gly 800
				Ser 805
				Phe 810
				Leu 815

755		760		765
Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr				
770		775		780
Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg				
785		790		800
Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro				
	805		810	815
Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu				
	820		825	830
Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser				
	835		840	845
Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly				
	850		855	860
Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu				
865		870		880
Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val				
	885		890	895
Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp				
	900		905	910
Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr				
	915		920	925
Lys Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser				
	930		935	940
His Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe				
945		950		955
			955	960
Cys Thr Met Ala Glu Cys Ser				
	965			

<210> 588
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 588
Met Cys Val Cys Leu Ile Cys Ser Ile Cys Gln Phe Leu Trp Cys Lys
1 5 10 15
Tyr Ser His Tyr Ser Cys Phe Gln Ala Asn Ile Val Ile Pro Gln Lys
20 25 30
Met Glu Leu Gly Arg His Asn Gln Asp
35 40

<210> 589
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 589
 Met Val Phe Leu Lys Phe Phe Cys Met Ser Phe Phe Cys His Leu Cys
 1 5 10 15
 Gln Gly Tyr Phe Asp Gly Pro Leu Tyr Pro Glu Met Ser Asn Gly Thr
 20 25 30
 Leu His His Tyr Phe Val Pro Asp Gly Asp Tyr Glu Glu Asn Asp Asp
 35 40 45
 Pro Glu Lys Cys Gln Leu Leu Phe Arg Val Ser Asp His Arg Arg Cys
 50 55 60
 Ser Gln Gly Glu Gly Ser Gln Val Gly Ser Leu Leu Ser Leu Thr Leu
 65 70 75 80
 Arg Glu Glu Phe Thr Val Leu Gly His Gln Val Glu Asp Ala Gly Arg
 85 90 95
 Val Leu Glu Gly Ile Ser Lys Ser Ile Ser Tyr Asp Leu Asp Gly Glu
 100 105 110
 Glu Ser Tyr Gly Lys Tyr Leu Arg Arg Glu Ser His Gln Ile Gly Asp
 115 120 125
 Ala Tyr Ser Asn Ser Asp Lys Ser Leu Thr Glu Leu Glu Ser Lys Phe
 130 135 140
 Lys Gln Gly Gln Glu Gln Asp Ser Arg Gln Glu Ser Arg Leu Asn Glu
 145 150 155 160
 Asp Phe Leu Gly Met Leu Val His Thr Arg Ser Leu Leu Lys Glu Thr
 165 170 175
 Leu Asp Ile Ser Val Gly Leu Arg Asp Lys Tyr Glu Leu Leu Ala Leu
 180 185 190
 Thr Ile Arg Ser His Gly Thr Arg Leu Gly Arg Leu Lys Asn Asp Tyr
 195 200 205
 Leu Lys Val
 210

<210> 590
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 590
 Met Ser His His Ala Gly Leu Gly Gly Gly Ile Leu Phe Ser Leu Lys
 1 5 10 15
 Ile Ser Phe Phe Ile Ala Leu Ala Val Val Gly Gly Ser Arg Gly Val
 20 25 30
 Asn Asp Cys Gln Leu Gly Gly Cys Arg Val Gly Ser Cys Pro Arg Val
 35 40 45
 Xaa Val Arg Val Ala
 50

<210> 591
 <211> 48
 <212> PRT
 <213> Homo sapiens

 <400> 591
 Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
 1 5 10 15
 Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
 20 25 30
 Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
 35 40 45

<210> 592
 <211> 80
 <212> PRT
 <213> Homo sapiens

 <400> 592
 Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
 1 5 10 15
 Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
 20 25 30
 His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
 35 40 45
 Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile

50		55		60											
Ser	Glu	Leu	Pro	Gln	Gln	Val	Gly	Glu	Val	Gly	Thr	Pro	Ser	Cys	Asn
65				70						75					80

<210> 593
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 593
Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
1 5 10 15
Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Leu Ser
20 25 30
Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His
35 40 45
Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
50 55 60
Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
65 70 75 80
Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
85 90 95
Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
100 105 110
Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
115 120 125
Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
130 135 140
Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
145 150 155 160
Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
165 170 175
Asn Glu Ile Asp Glu Leu Leu Gh Glu Phe Glu Glu Lys Ser Gly Arg
180 185 190
Thr Phe Leu His Thr Val Cys Phe Tyr
195 200

<210> 594
 <211> 420
 <212> PRT
 <213> Homo sapiens

<400> 594

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Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
  1           5           10           15

Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
      20           25           30

Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
      35           40           45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
      50           55           60

Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala TrpGlu Glu Glu Asn Leu
      65           70           75           80

Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
      85           90           95

Val Cys Ser Lys Ser Asp Phe Glu Cys HisArg Leu Leu Glu Leu Ser
      100          105          110

Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
      115          120          125

Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys LeuCys Cys Pro
      130          135          140

Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
      145          150          155          160

Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr ArgGly
      165          170          175

Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
      180          185          190

Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
      195          200          205

Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
      210          215          220

Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
      225          230          235          240

Leu Lys Cys Val Asp Ile Asp Glu Cys Gly Thr Glu Gly Ala Asn Cys
      245          250          255

Gly Ala Asp Gln Phe Cys Val Asn Thr Glu Gly Ser Tyr Glu Cys Arg
      260          265          270

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Asp Cys Ala Lys Ala Cys Leu Gly Cys Met Gly Ala Gly Pro Gly Arg
 275 280 285
 Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly Ser Lys Cys Leu
 290 295 300
 Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly Glu Asn Lys Gln
 305 310 315 320
 Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys Ala Glu Gly Tyr
 325 330 335
 Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile Pro Glu Ser Ala
 340 345 350
 Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln
 355 360 365
 Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys
 370 375 380
 Gly Asp Leu Val Phe Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met
 385 390 395 400
 Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe
 405 410 415
 Ile Lys Gly Arg
 420

<210> 595
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 595
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
 1 5 10 15
 Trp Leu Leu Leu Lys Ala Gly Ala Val Arg Gly Ala Arg Ala Gly Pro
 20 25 30
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
 35 40 45
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln Arg Leu Leu Gly Gln
 50 55 60
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
 65 70 75 80
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val Cys Thr Gly
 85 90 95
 Leu Ala Arg Trp Met Val

100

<210> 596
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (11)
<223> Xaa equals any of the naturally occurring amino acids

<400> 596
Met Cys Lys Ala Val Cys Lys His Arg Leu Xaa Leu Phe Ala Val Ser
1 5 10 15
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
20 25 30
Trp Pro Val Arg Leu Ser Leu Ala Pro Arg Pro Val Gln Leu Gln Gln
35 40 45
Arg Arg Ser His Cys
50

<210> 597
<211> 472
<212> PRT
<213> Homo sapiens

<400> 597
Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser
1 5 10 15
Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr
20 25 30
Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys
35 40 45
Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr
50 55 60
Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly
65 70 75 80
Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln
85 90 95
Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His
100 105 110
Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His

115					120					125					
Lys	Ile	Ala	Ile	Leu	Gly	Leu	Gly	Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu
130						135					140				
Gly	Ile	Thr	Ala	Glu	Val	Leu	Val	Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln
145					150					155					160
Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly	Lys	Ile	Val	Val	Tyr	Asn	Gln	Pro
				165					170					175	
Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val	Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val
		180						185					190		
Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu	Ala	Ser	Leu	Ile	Arg	Ser	Val	Ala
		195					200					205			
Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His	Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp
	210					215					220				
Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala	Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu
225					230					235					240
Met	Met	Ser	Arg	Met	Ala	Ser	His	Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu
				245					250					255	
Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro	Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val
			260					265					270		
Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr	Pro	Glu	Gln	Val	Val	Leu	Val	Ser
		275					280					285			
Gly	His	Leu	Asp	Ser	Trp	Asp	Val	Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly
	290					295					300				
Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	Ala	Leu	Ser	Leu	Ile	Lys	Asp	Leu
305					310					315					320
Gly	Leu	Arg	Pro	Lys	Arg	Thr	Leu	Arg	Leu	Val	Leu	Trp	Thr	Ala	Glu
				325					330					335	
Glu	Gln	Gly	Gly	Val	Gly	Ala	Phe	Gln	Tyr	Tyr	Gln	Leu	His	Lys	Val
			340					345					350		
Asn	Ile	Ser	Asn	Tyr	Ser	Leu	Val	Met	Glu	Ser	Asp	Ala	Gly	Thr	Phe
		355					360					365			
Leu	Pro	Thr	Gly	Leu	Gln	Phe	Thr	Gly	Ser	Glu	Lys	Ala	Arg	Ala	Ile
	370					375					380				
Met	Glu	Glu	Val	Met	Ser	Leu	Leu	Gln	Pro	Leu	Asn	Ile	Thr	Gln	Val
385					390					395					400
Leu	Ser	His	Gly	Glu	Gly	Thr	Asp	Ile	Asn	Phe	Trp	Ile	Gln	Ala	Gly
			405					410					415		
Val	Pro	Gly	Ala	Ser	Leu	Leu	Asp	Asp	Leu	Tyr	Lys	Tyr	Phe	Phe	Phe

420	425	430
His His Ser His Gly Asp Thr Met Thr Val Met Asp Pro Lys Gln Met		
435	440	445
Asn Val Ala Ala Ala Val Trp Ala Val Val Ser Tyr Val Val Ala Asp		
450	455	460
Met Glu Glu Met Leu Pro Arg Ser		
465	470	

<210> 598
 <211> 359
 <212> PRT
 <213> Homo sapiens

<400> 598
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu
 1 5 10 15
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr
 20 25 30
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr
 35 40 45
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala
 50 55 60
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu
 65 70 75 80
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val
 85 90 95
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe
 100 105 110
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe
 115 120 125
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr His Cys Ser
 130 135 140
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val
 145 150 155 160
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Arg Ala
 165 170 175
 Val Pro Ser Ala Glu Pro Gln Ala Gly Gly Pro Met Thr Leu Ser Cys
 180 185 190
 Gln Thr Lys Leu Pro Leu Gln Arg Ser Ala Ala Arg Leu Leu Phe Ser
 195 200 205

Phe Tyr Lys Asp Gly Arg Ile Val Gln Ser Arg Gly Leu Ser Ser Glu
 210 215 220
 Phe Gln Ile Pro Thr Ala Ser Glu Asp His SerGly Ser Tyr Trp Cys
 225 230 235 240
 Glu Ala Ala Thr Glu Asp Asn Gln Val Trp Lys Gln Ser Pro Gln Leu
 245 250 255
 Glu Ile Arg Val Gln Gly Ala Ser Ser SerAla Ala Pro Pro Thr Leu
 260 265 270
 Asn Pro Ala Pro Gln Lys Ser Ala Ala Pro Gly Thr Ala Pro Glu Glu
 275 280 285
 Ala Pro Gly Pro Leu Pro Pro Pro Pro Thr Pro Ser SerGlu Asp Pro
 290 295 300
 Gly Phe Ser Ser Pro Leu Gly Met Pro Asp Pro His Leu Tyr His Gln
 305 310 315 320
 Met Gly Leu Leu Leu Lys His Met Gln Asp Val Arg Val Leu LeuGly
 325 330 335
 His Leu Leu Met Glu Leu Arg Glu Leu Ser Gly His Arg Lys Pro Gly
 340 345 350
 Thr Thr Lys Ala Thr Ala Glu
 355

<210> 599
 <211> 379
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (283)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (303)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (307)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 599
 Met Gly Tyr Ile Asp Asp Pro Asp Lys Tyr His Gln Gly Phe Glu Leu
 1 5 10 15

Leu Leu Ser Ala Leu Gly Asp Pro Ser Glu Arg Val Val Ser Ala Thr
 20 25 30
 His Gln Val Phe Leu Pro Ala Tyr Ala Ala Trp Thr Thr Glu Leu Gly
 35 40 45
 Asn Leu Gln Ser His Leu Ile Leu Thr Leu Leu Asn Lys Ile Glu Lys
 50 55 60
 Leu Leu Arg Glu Gly Glu His Gly Leu Asp Glu His Lys Leu His Met
 65 70 75 80
 Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu Val
 85 90 95
 Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu Val
 100 105 110
 Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu Gln
 115 120 125
 Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu Leu
 130 135 140
 Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp Glu
 145 150 155 160
 Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu Ile
 165 170 175
 Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe Ser
 180 185 190
 Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr Asn
 195 200 205
 Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu Glu
 210 215 220
 Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr Val
 225 230 235 240
 Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu Asp
 245 250 255
 Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu Ser
 260 265 270
 Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu Leu
 275 280 285
 Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa Tyr
 290 295 300
 Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg Met
 305 310 315 320

Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln Arg
 325 330 335
 Val Val Pro Ala Leu Ile Thr Leu Ser Ser Asp Pro Glu Ile Ser Val
 340 345 350
 Arg Ile Ala Thr Ile Pro Ala Phe Gly Thr Ile Met Glu Thr Val Ile
 355 360 365
 Gln Arg Glu Leu Leu Glu Arg Val Lys Met Gln
 370 375

<210> 600
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 600
 Met Ser Thr Val Thr Trp Leu Leu Lys Leu Phe Thr Gln Phe Met Phe
 1 5 10 15
 Pro Pro Thr Val Ser Asn Ser His Thr Cys Ala Arg Tyr Tyr Val Phe
 20 25 30
 Asn Phe Cys Leu Ile Ile Ser Phe Asn Phe Asn Phe His Tyr His Trp
 35 40 45

<210> 601
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 601
 Met Gly Cys Leu Val Trp Gly Pro Ser Trp Pro Pro Leu Ser Leu Leu
 1 5 10 15
 Ala Ser Leu Leu His Ser Gly Ile Ala Gly Arg Cys Leu Leu Cys Leu
 20 25 30
 Phe Lys Gly Leu Ala Ala Ala Ala Ser Leu Gln Ile Arg Asp Leu Ala
 35 40 45
 Ser Arg Leu Thr Thr Gly Pro Arg Thr Cys Arg Val Gln Pro Pro Pro
 50 55 60
 His Pro Gln Ser Ser Pro Pro Trp Pro Gly Pro Pro Gly Ala Glu Thr
 65 70 75 80
 Cys Arg Pro Leu Ser Arg Thr Val Gly Gly Val Cys Pro Ser Asp Trp
 85 90 95

Pro Val Ser Trp Leu Leu Leu Pro Pro Leu Pro Glu Val Val Thr Cys
100 105 110
Ser Cys Pro Arg Ile Lys Ala Arg Pro Glu Arg Thr Pro Glu Leu Leu
115 120 125
Cys Ala Trp Gly Gly Arg Gly Lys His Ser Gln Leu Val Ala
130 135 140

<210> 602
<211> 399
<212> PRT
<213> Homo sapiens

<400> 602
Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
1 5 10 15
Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
20 25 30
Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
35 40 45
Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
50 55 60
Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
65 70 75 80
Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
85 90 95
Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
100 105 110
Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
115 120 125
Lys Ile Thr Glu Leu Arg Val Gln Lys Leu Ser Val Ser Lys Pro Thr
130 135 140
Val Thr Thr Gly Ser Gly Tyr Gly Phe Thr Val Pro Gln Gly Met Arg
145 150 155 160
Ile Ser Leu Gln Cys Gln Ala Arg Gly Ser Pro Pro Ile Ser Tyr Ile
165 170 175
Trp Tyr Lys Gln Gln Thr Asn Asn Gln Glu Pro Ile Lys Val Ala Thr
180 185 190
Leu Ser Thr Leu Leu Phe Lys Pro Ala Val Ile Ala Asp Ser Gly Ser
195 200 205

Tyr Phe Cys Thr Ala Lys Gly Gln Val Gly Ser Glu Gln His Ser Asp
 210 215 220
 Ile Val Lys Phe Val Val Lys Asp Ser Ser Lys Leu Leu Lys Thr Lys
 225 230 235 240
 Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr Ser Thr
 245 250 255
 Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr Leu Gly
 260 265 270
 Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala Ile Ile
 275 280 285
 Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala Tyr Ile
 290 295 300
 Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu Ala Ala
 305 310 315 320
 Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met Arg Val
 325 330 335
 Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser Gln Asn
 340 345 350
 Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu Tyr Gln
 355 360 365
 Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp Thr Val
 370 375 380
 Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val Cys
 385 390 395

<210> 603
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 603
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
 1 5 10 15
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
 20 25 30
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 35 40 45
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Asp Cys Arg
 50 55 60
 Asn Thr Asp Gln Thr Tyr Trp Cys Glu Tyr Arg Gly Gln Pro Ser Met

65		70		75		80									
Cys	Gln	Ala	Phe	Ala	Ala	Asp	Pro	Lys	Ser	Tyr	Trp	Asn	Gln	Ala	Leu
				85					90					95	
Gln	Glu	Leu	Arg	Arg	Leu	His	His	Ala	Cys	Gln	Gly	Ala	Pro	Val	Leu
			100					105					110		
Arg	Pro	Ser	Val	Cys	Arg	Glu	Ala	Gly	Pro	Gln	Ala	His	Met	Gln	Gln
		115					120					125			
Val	Thr	Ser	Ser	Leu	Lys	Gly	Ser	Pro	Glu	Pro	Asn	Gln	Gln	Pro	Glu
	130					135					140				
Ala	Gly	Thr	Pro	Ser	Leu	Arg	Pro	Lys	Ala	Thr	Val	Lys	Leu	Thr	Glu
145					150					155					160
Ala	Thr	Gln	Leu	Gly	Lys	Asp	Ser	Met	Glu	Glu	Leu	Gly	Lys	Ala	Lys
			165						170					175	
Pro	Thr	Thr	Arg	Pro	Thr	Ala	Lys	Pro	Thr	Gln	Pro	Gly	Pro	Arg	Pro
			180					185					190		
Gly	Gly	Asn	Glu	Glu	Ala	Lys	Lys	Lys	Ala	Trp	Glu	His	Cys	Trp	Lys
		195					200					205			
Pro	Phe	Gln	Ala	Leu	Cys	Ala	Phe	Leu	Ile	Ser	Phe	Phe	Arg	Gly	
	210					215					220				

<210> 604
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 604
Met Leu Val Val Cys Leu Leu Leu Ala Thr Gly Phe Cys Leu Phe Arg
1 5 10 15
Gly Leu Ile Ala Leu Asp Cys Pro Ser Glu Leu Cys Arg Leu Tyr Thr
20 25 30
Gln Phe Gln Glu Pro Tyr Leu Lys Asp Pro Ala Ala Tyr Pro Lys Ile
35 40 45
Gln Met Leu Ala Tyr Met Phe Tyr Ser Val Pro Tyr Phe Val Thr Ala
50 55 60
Leu Tyr Gly Leu Val Val Pro Gly Cys Ser Trp Met Pro Asp Ile Thr
65 70 75 80
Leu Ile His Ala Gly Gly Leu Ala Gln Ala Gln Phe Ser His Ile Gly
85 90 95
Ala Ser Leu His Ala Arg Thr Ala Tyr Val Tyr Arg Val Pro Glu Glu
100 105 110

Ala Lys Ile Leu Phe Leu Ala Leu Asn Ile Ala Tyr Gly Val Leu Pro
115 120 125
Gln Leu Leu Ala Tyr Arg Cys Ile Tyr Lys Pro Glu Phe Phe Ile Lys
130 135 140
Thr Lys Ala Glu Glu Lys Val Glu
145 150

<210> 605
<211> 40
<212> PRT
<213> Homo sapiens

<400> 605
Met Ser Val Leu Ser Gly Phe Leu Phe Ile Val Val Val Cys Cys Tyr
1 5 10 15
Cys Cys Phe Val Ala Arg Leu Gln Leu Thr Lys Tyr Glu Phe Lys Asn
20 25 30
Cys Val Val Ile Phe Arg Asp Leu
35 40

<210> 606
<211> 135
<212> PRT
<213> Homo sapiens

<400> 606
Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
1 5 10 15
Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
20 25 30
Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
35 40 45
Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
50 55 60
Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
65 70 75 80
Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
85 90 95
Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
100 105 110
Ala Ala Leu Gly Ala Ala Ser Ala Thr Leu Met Val Gly Leu Thr Val

115 120 125
 Arg Ile Leu Ala Thr Arg His
 130 135

<210> 607
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 607
 Met Ala Thr Ile Leu Leu Lys Leu Pro Ile Leu Ser Ala Met Ile Lys
 1 5 10 15
 Lys Pro Leu Arg Asn Tyr Leu Lys Thr Ser Glu Thr Thr Met Glu Lys
 20 25 30
 Ile Ile Ile Gln Lys Leu Val Ala Asn Leu Lys Phe Leu Pro Leu Gly
 35 40 45
 Thr Leu Gln Leu Ala Met Met Ile Ala Asn Leu Ile Lys Lys Leu Phe
 50 55 60
 Phe Pro Leu Val Lys Ala Ala Lys
 65 70

<210> 608
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 608
 Met Arg Thr Phe Leu Thr Phe Val Ile Leu Lys Val Ile Leu Ile Phe
 1 5 10 15
 Leu Ser Ser Cys Ala Ser Phe Thr Arg Asn Leu Leu Thr Trp Pro Asn
 20 25 30
 Asp Val Ser Thr Glu Gln Phe Glu Thr Arg Pro Phe Gly Ser Glu Leu
 35 40 45
 Leu Gln Thr Val Ile Asn Val Ser Arg Thr
 50 55

<210> 609
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 609
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly

1	5	10	15
Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg	20	25	30
Val His Gln Ala Ala Pro Leu Ser Asp Ala ProHis Asp Asp Ala His	35	40	45
Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala	50	55	60
Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly	65	70	75
Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val	85	90	95
Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln ArgHis	100	105	110
Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg	115	120	125
Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His	130	135	140
Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr	145	150	155
Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln	165	170	175
Asp Gly Asp Ser Met Ala	180		

<210> 610
 <211> 950
 <212> PRT
 <213> Homo sapiens

<400> 610
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80

Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
 85 90 95
 Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
 100 105 110
 Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
 115 120 125
 Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
 130 135 140
 Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
 145 150 155 160
 Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
 165 170 175
 Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
 180 185 190
 Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
 195 200 205
 Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
 210 215 220
 Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
 225 230 235 240
 Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Leu Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380

Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu
 500 505 510
 Ser Arg Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn
 515 520 525
 Val Pro Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu
 530 535 540
 Lys Pro Glu Lys Glu Lys Lys Lys Lys Met Lys Asn Glu Asn Ala Asp
 545 550 555 560
 Lys Leu Leu Lys Ser Glu Lys Gln Met Lys Lys Ser Glu Lys Lys Ser
 565 570 575
 Lys Gln Glu Lys Glu Lys Ser Lys Lys Lys Gly Gly Lys Thr Glu
 580 585 590
 Gln Asp Gly Tyr Gln Lys Pro Thr Asn Lys His Phe Thr Gln Ser Pro
 595 600 605
 Lys Lys Ser Val Ala Asp Leu Leu Gly Ser Phe Glu Gly Lys Arg Arg
 610 615 620
 Leu Leu Leu Ile Thr Ala Pro Lys Ala Glu Asn Asn Met Tyr Val Gln
 625 630 635 640
 Gln Arg Asp Glu Tyr Leu Glu Ser Phe Cys Lys Met Ala Thr Arg Lys
 645 650 655
 Ile Ser Val Ile Thr Ile Phe Gly Pro Val Asn Asn Ser Thr Met Lys
 660 665 670
 Ile Asp His Phe Gln Leu Asp Asn Glu Lys Pro Met Arg Val Val Asp
 675 680 685

Asp Glu Asp Leu Val Asp Gln Arg Leu Ile Ser Glu Leu Arg Lys Glu
 690 695 700
 Tyr Gly Met Thr Tyr Asn Asp Phe Phe Met Val Leu Thr Asp Val Asp
 705 710 715 720
 Leu Arg Val Lys Gln Tyr Tyr Glu Val Pro Ile Thr Met Lys Ser Val
 725 730 735
 Phe Asp Leu Ile Asp Thr Phe Gln Ser Arg Ile Lys Asp Met Glu Lys
 740 745 750
 Gln Lys Lys Glu Gly Ile Val Cys Lys Glu Asp Lys Lys Gln Ser Leu
 755 760 765
 Glu Asn Phe Leu Ser Arg Phe Arg Trp Arg Arg Arg Leu Leu Val Ile
 770 775 780
 Ser Ala Pro Asn Asp Glu Asp Trp Ala Tyr Ser Gln Gln Leu Ser Ala
 785 790 795 800
 Leu Ser Gly Gln Ala Cys Asn Phe Gly Leu Arg His Ile Thr Ile Leu
 805 810 815
 Lys Leu Leu Gly Val Gly Glu Glu Val Gly Gly Val Leu Glu Leu Phe
 820 825 830
 Pro Ile Asn Gly Ser Ser Val Val Glu Arg Glu Asp Val Pro Ala His
 835 840 845
 Leu Val Lys Asp Ile Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe
 850 855 860
 Ser Met Leu Leu Val Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro
 865 870 875 880
 Ser Pro Met Trp Ser Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met
 885 890 895
 Gln Leu Arg Arg Gln Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg
 900 905 910
 Cys Pro Glu Asp Glu Tyr Ala Gly Tyr Gly Tyr His Ser Tyr His Gln
 915 920 925
 Gly Tyr Gln Asp Gly Tyr Gln Asp Asp Tyr Arg His His Glu Ser Tyr
 930 935 940
 His His Gly Tyr Pro Tyr
 945 950

<210> 611
 <211> 260
 <212> PRT

<213> Homo sapiens

<400> 611

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Met Leu Ala Leu Leu Gly Leu Ser Gln Ala Leu Asn Ile Leu Leu Gly
  1           5           10           15

Leu Lys Gly Leu Ala Pro Ala Glu Ile Ser Ala Val Cys Glu Lys Gly
      20           25           30

Asn Phe Asn Val Ala His Gly Leu Ala Trp Ser Tyr Tyr Ile Gly Tyr
      35           40           45

Leu Arg Leu Ile Leu Pro Glu Leu Gln Ala Arg Ile Arg Thr Tyr Asn
      50           55           60

Gln His Tyr Asn Asn Leu Leu Arg Gly Ala Val Ser Gln Arg Leu Tyr
      65           70           75           80

Ile Leu Leu Pro Leu Asp Cys Gly Val Pro Asp Asn Leu Ser Met Ala
      85           90           95

Asp Pro Asn Ile Arg Phe Leu Asp Lys Leu Pro Gln Gln Thr Gly Asp
      100          105          110

Arg Ala Gly Ile Lys Asp Arg Val Tyr Ser Asn Ser Ile Tyr Glu Leu
      115          120          125

Leu Glu Asn Gly Gln Arg Ala Gly Thr Cys Val Leu Glu Tyr Ala Thr
      130          135          140

Pro Leu Gln Thr Leu Phe Ala Met Ser Gln Tyr Ser Gln Ala Gly Phe
      145          150          155          160

Ser Gly Glu Asp Arg Leu Glu Gln Ala Lys Leu Phe Cys Arg Thr Leu
      165          170          175

Glu Asp Ile Leu Ala Asp Ala Pro Glu Ser Gln Asn Asn Cys Arg Leu
      180          185          190

Ile Ala Tyr Gln Glu Pro Ala Asp Asp Ser Ser Phe Ser Leu Ser Gln
      195          200          205

Glu Val Leu Arg His Leu Arg Gln Glu Glu Lys Glu Glu Val Thr Val
      210          215          220

Gly Ser Leu Lys Thr Ser Ala Val Pro Ser Thr Ser Thr Met Ser Gln
      225          230          235          240

Glu Pro Glu Leu Leu Ile Ser Gly Met Glu Lys Pro Leu Pro Leu Arg
      245          250          255

Thr Asp Phe Ser
      260
```

<210> 612

<211> 85
 <212> PRT
 <213> Homo sapiens

<400> 612
 Met Gly Cys Arg Gly Asn Lys Leu Phe Val Leu Ser Tyr Cys Thr Cys
 1 5 10 15
 Leu Thr Trp Leu Leu Gly Thr Lys Ser Gln Lys Asn Pro Phe Gln Val
 20 25 30
 Cys Met Ser Gly Gly Trp Ala Val Ser Arg Leu Glu Thr Gly Phe Gln
 35 40 45
 Ala Leu His Asp Gly Arg Ala Ser Ser Pro Leu Ser Ala Ala Cys Val
 50 55 60
 Leu Asp Arg Thr Val Ala Arg Arg Trp Lys Pro Pro Ser Val Pro Leu
 65 70 75 80
 Ala His His Thr Lys
 85

<210> 613
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 613
 Met Pro Leu Pro Ser Ser Phe Pro Leu Pro Val Phe Leu Ser Ser Cys
 1 5 10 15
 Pro Phe Leu Met Ser Val Ser Ile Gly Phe Leu Ile Leu Val Phe Asn
 20 25 30
 Val His Pro
 35

<210> 614
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 614
 Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Arg Cys Ser
 1 5 10 15
 Cys Ser Ala Leu Leu His Glu Ser Asn His Arg Pro Tyr Leu Asn Lys
 20 25 30
 Trp Ser Leu Leu Ser Thr Asn Lys Thr Leu Phe Arg Asn Asn Arg Gly
 35 40 45

Leu Asp Leu Val Leu Val Cys
50 55

<210> 615
<211> 78
<212> PRT
<213> Homo sapiens

<400> 615
Met Val Cys Phe Gln Ser Asn Lys Pro Ser Thr Ser Thr Trp Arg Gln
1 5 10 15
Leu Ser Phe Val Phe Val Leu Phe Cys Leu Phe Cys Leu Gly His Ala
20 25 30
Phe Leu Ser Leu Pro Phe Tyr Ile Leu Ser Ile Ile Ala Met Cys Leu
35 40 45
Glu Gln Trp Ala Phe His Asn Met Asn Ser Leu Tyr His His Glu Trp
50 55 60
Glu Val Arg Gly Asn Leu Ile His Val Asp Phe Thr Leu Pro
65 70 75

<210> 616
<211> 41
<212> PRT
<213> Homo sapiens

<400> 616
Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met
1 5 10 15
Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly
20 25 30
Ile Phe Ile Gly Pro Glu Gln Phe Leu
35 40

<210> 617
<211> 56
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring amino acids

<400> 617
Met Leu Ser Phe Phe Ile Cys Leu Leu Ile Phe Val His Leu Leu Leu

1	5	10	15
Leu Ser Phe	Leu Ile Ser Asp Trp	Pro Pro Pro Thr Gly	Ser Ala Xaa
20	25	30	
His Lys Ile	Leu Arg Leu Met Val	Val Gln Arg Leu Ser	Leu Leu Asp
35	40	45	
Gln Arg Lys	Arg Trp Ser Glu Ala		
50	55		

<210> 618
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 618
Met Ala Ile Arg Leu Val Phe Leu Ala Leu Ala Gly Leu Val Asp Gly
1 5 10 15
Lys Pro Val Trp Ile Thr Leu Trp Met Asp Ala Lys Arg Pro Asn Leu
20 25 30
Ala Gly Thr Gly Ser Thr Trp Gly Ser Arg Arg Asp Ser His Cys Cys
35 40 45
His Gly Pro Thr Ala Trp Ser Leu Pro Cys Leu Leu Cys Leu Phe Arg
50 55 60
Ala Gln Gln Lys Asp Arg Glu Arg Ser Leu Leu Gly Val Pro Leu Pro
65 70 75 80
Thr Leu Gln Gly Gly Asn Leu Ser Asp Gly
85 90

<210> 619
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 619
Met Cys Glu Gly Trp Leu His Pro Ile Phe Leu Tyr Cys Cys Phe Trp
1 5 10 15
Thr Thr Thr Pro Ser Cys Ser Ala Phe Gly Ile Leu Asp Leu His Gln
20 25 30
Gln His Pro Ile Pro Thr Pro Ser Ser Trp Phe Ser Gly Leu Cys Pro
35 40 45
Trp Thr Glu Leu His His Cys Leu Arg
50 55

<210> 620
 <211> 434
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (381)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 620

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Met Ala Leu Thr Ala Pro Ser Leu Ser Leu Asp Ala Arg Gln Leu Trp
  1              5              10              15

Asp Ser Pro Glu Thr Ala Pro Ala Ala Arg Thr Pro Gln Ser Pro Ala
      20              25              30

Pro Cys Val Leu Leu Arg Ala Gln Arg Ser Leu Ala Pro Glu Pro Lys
      35              40              45

Glu Pro Leu Ile Pro Ala Ser Pro Lys Ala Glu Pro Ile Trp Glu Leu
      50              55              60

Pro Thr Arg Ala Pro Arg Leu Ser Ile Gly Asp Asn Asp Phe Ser Asp
      65              70              75              80

Leu Gly Glu Asp Glu Asp Gln Asp Met Leu Asn Val Glu Ser Val Glu
      85              90              95

Ala Gly Lys Asp Ile Pro Ala Pro Ser Pro Pro Leu Pro Leu Leu Ser
      100             105             110

Gly Val Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Pro Ile Lys Gly
      115             120             125

Pro Phe Pro Pro Pro Pro Pro Leu Pro Leu Ala Ala Pro Asn Pro His
      130             135             140

Ser Val Pro Asp Ser Ser Ala Leu Pro Thr Lys Arg Lys Thr Val Lys
      145             150             155             160

Leu Phe Trp Arg Glu Leu Lys Leu Ala Gly Gly His Gly Val Ser Asn
      165             170             175

Ser Arg Phe Gly Pro Cys Ala Thr Leu Trp Ala Ser Leu Asp Pro Val
      180             185             190

Ser Val Asp Thr Ala Arg Leu Glu His Leu Phe Glu Ser Arg Ala Lys
      195             200             205

Glu Val Leu Pro Ser Lys Lys Ala Gly Glu Gly Arg Arg Thr Met Thr
      210             215             220

Thr Val Leu Asp Pro Lys Arg Ser Asn Ala Ile Asn Ile Gly Leu Thr
      225             230             235             240

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Thr Leu Pro Pro Val His Val Ile Lys Ala Ala Leu Leu Asn Phe Asp
 245 250 255
 Glu Phe Ala Val Ser Lys Asp Gly Ile Glu Lys Leu Leu Thr Met Met
 260 265 270
 Pro Thr Glu Glu Glu Arg Gln Lys Ile Glu Glu Ala Gln Leu Ala Asn
 275 280 285
 Pro Asp Ile Pro Leu Gly Pro Ala Glu Asn Phe Leu Met Thr Leu Ala
 290 295 300
 Ser Ile Gly Gly Leu Ala Ala Arg Leu Gln Leu Trp Ala Phe Lys Leu
 305 310 315 320
 Asp Tyr Asp Ser Met Glu Arg Glu Ile Ala Glu Pro Leu Phe Asp Leu
 325 330 335
 Lys Val Gly Met Glu Gln Leu Val Gln Asn Ala Thr Phe Arg Cys Ile
 340 345 350
 Leu Ala Thr Leu Leu Ala Val Gly Asn Phe Leu Asn Gly Ser Gln Ser
 355 360 365
 Ser Gly Phe Glu Leu Ser Tyr Leu Glu Lys Val Ser Xaa Val Lys Asp
 370 375 380
 Thr Val Arg Arg Gln Ser Leu Leu His His Leu Cys Ser Leu Val Leu
 385 390 395 400
 Gln Thr Arg Pro Glu Ser Ser Asp Leu Tyr Ser Glu Ile Pro Ala Leu
 405 410 415
 Thr Arg Cys Ala Lys Val Ser Thr Cys Gln Asn Gln Pro Arg Pro Asp
 420 425 430
 Lys Ala

<210> 621
 <211> 305
 <212> PRT
 <213> Homo sapiens

<400> 621
 Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala
 1 5 10 15
 Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
 20 25 30
 Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
 35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro ~~Al~~ His Leu
 50 55 60
 Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
 65 70 75 80
 Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr ~~Pe~~
 85 90 95
 Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
 100 105 110
 Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
 115 120 125
 Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
 130 135 140
 Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
 145 150 155 160
 Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
 165 170 175
 Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu
 180 185 190
 Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
 195 200 205
 Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
 210 215 220
 Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
 225 230 235 240
 Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
 245 250 255
 Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
 260 265 270
 Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
 275 280 285
 Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
 290 295 300
 Leu
 305

<210> 622
 <211> 364
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 622
 Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly Pro Arg Leu
 1 5 10 15
 Leu Phe Leu Xaa Ala Leu Ala Leu Glu Leu Leu Gly Arg Ala Gly Gly
 20 25 30
 Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala Cys Arg Leu
 35 40 45
 Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser Gly Glu Arg
 50 55 60
 Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met Val Gly Leu
 65 70 75 80
 Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met Gly Thr Met
 85 90 95
 Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu Leu Ser Phe
 100 105 110
 Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu Leu Pro Glu
 115 120 125
 Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu Gly Gln Ser
 130 135 140
 Leu Gln Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala Gly Ile Leu
 145 150 155 160
 Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys Glu Glu Gly
 165 170 175
 Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala Ala Ala Leu
 180 185 190
 Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro Gly Leu Gly
 195 200 205
 Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn Leu Leu Ala
 210 215 220
 Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala Ala Ser Phe
 225 230 235 240
 Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala Ile Leu Leu
 245 250 255
 His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu Leu Arg Ala
 260 265 270

Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser Thr Ala Leu
 275 280 285
 Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln Ser Pro Lys
 290 295 300
 Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr Ser Gly Gly
 305 310 315 320
 Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu Leu Glu Glu
 325 330 335
 Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu Leu Cys Ala Gly
 340 345 350
 Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp
 355 360

<210> 623
 <211> 282
 <212> PRT
 <213> Homo sapiens

<400> 623
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Ala Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Leu Val Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala
 85 90 95
 Thr Lys Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser
 100 105 110
 Leu Val Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu
 115 120 125
 Ser Gln Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp
 130 135 140
 Ala Arg Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn
 145 150 155 160

Arg Phe Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu
 165 170 175
 Arg Pro Glu Ile Leu Arg Leu Met Thr Leu PheMet Arg Tyr Arg Ser
 180 185 190
 Ser Ser Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val
 195 200 205
 Ala Leu Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu GlnAla Leu
 210 215 220
 His Gly Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His
 225 230 235 240
 Ser Met Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser
 245 250 255
 Thr Ser Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly
 260 265 270
 Val Ala Val Ser Leu Ser His Ile Arg Asn
 275 280

<210> 624

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring amino acids

<400> 624

Met Thr Ala Phe Cys Ser Leu Leu Leu Gln Ala Gln Ser Leu Leu Pro
 1 5 10 15
 Arg Thr Met Ala Ala Pro Gln Asp Ser Leu Arg Pro Gly Glu Glu Asp
 20 25 30
 Glu Gly Met Gln Leu Leu Gln Thr Lys Asp Ser Met Ala Lys Gly Ala
 35 40 45
 Arg Pro Gly Ala Xaa Arg Gly Arg Ala Arg Trp Gly Leu Ala Tyr Thr
 50 55 60
 Leu Leu His Asn Pro Thr Leu Gln Val Phe Arg Lys Thr Ala Leu Leu
 65 70 75 80
 Gly Ala Asn Gly Ala Gln Pro
 85

<210> 625
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 625
 Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
 1 5 10 15
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Leu Ser Met
 115 120 125
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly
 130 135 140
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Pro Pro
 145 150 155 160
 Trp Gln Pro Ala Met Ser Pro Val Pro Gly Thr Gly Gly Pro Pro Cys
 165 170 175
 Gly Leu

<210> 626
 <211> 298
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (42)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (58)

<223> Xaa equals any of the naturally occurring amino acids

<400> 626

```
Met Ala Arg Arg Ser Arg His Arg Leu Leu Leu Leu Leu Leu Arg Tyr
  1              5              10              15

Leu Val Val Ala Leu Gly Tyr His Lys Ala Tyr Gly Phe Ser Ala Pro
      20              25              30

Lys Asp Gln Gln Val Val Thr Ala Val Xaa Tyr Gln Glu Ala Ile Leu
      35              40              45

Ala Cys Lys Thr Pro Lys Lys Thr Val Xaa Ser Arg Leu Glu Trp Lys
      50              55              60

Lys Leu Gly Arg Ser Val Ser Phe Val Tyr Tyr Gln Gln Thr Leu Gln
      65              70              75              80

Gly Asp Phe Lys Asn Arg Ala Glu Met Ile Asp Phe Asn Ile Arg Ile
      85              90              95

Lys Asn Val Thr Arg Ser Asp Ala Gly Lys Tyr Arg Cys Glu Val Ser
      100             105             110

Ala Pro Ser Glu Gln Gly Gln Asn Leu Glu Glu Asp Thr Val Thr Leu
      115             120             125

Glu Val Leu Val Ala Pro Ala Val Pro Ser Cys Glu Val Pro Ser Ser
      130             135             140

Ala Leu Ser Gly Thr Val Val Glu Leu Arg Cys Gln Asp Lys Glu Gly
      145             150             155             160

Asn Pro Ala Pro Glu Tyr Thr Trp Phe Lys Asp Gly Ile Arg Leu Leu
      165             170             175

Glu Asn Pro Arg Leu Gly Ser Gln Ser Thr Asn Ser Ser Tyr Thr Met
      180             185             190

Asn Thr Lys Thr Gly Thr Leu Gln Phe Asn Thr Val Ser Lys Leu Asp
      195             200             205

Thr Gly Glu Tyr Ser Cys Glu Ala Arg Asn Ser Val Gly Tyr Arg Arg
      210             215             220

Cys Pro Gly Lys Arg Met Gln Val Asp Asp Leu Asn Ile Ser Gly Id
      225             230             235             240

Ile Ala Ala Val Val Val Val Ala Leu Val Ile Ser Val Cys Gly Leu
      245             250             255

Gly Val Cys Tyr Ala Gln Arg Lys Gly Tyr Phe Ser Lys Glu Th Ser
      260             265             270

Phe Gln Lys Ser Asn Ser Ser Ser Lys Ala Thr Thr Met Ser Glu Asn
      275             280             285
```

Asp Phe Lys His Thr Lys Ser Phe Ile Ile
 290 295

<210> 627
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 627
 Met Glu Pro Val Ala Leu Leu Gln Pro Thr Trp Trp Leu Leu Asn Val
 1 5 10 15
 Thr Leu Pro Leu Val Ala Trp Ser Gly Pro Leu Ile Cys ArgPro Leu
 20 25 30
 Leu His Gly Glu Gly Arg Gln Gly Ala Ala Cys Leu Gln Gly
 35 40 45

<210> 628
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 628
 Met Ile Lys Ile Leu Lys Glu Ala Ile Glu Glu Thr Ser Phe Cys Ser
 1 5 10 15
 Phe Trp Arg Ile Ser Phe Gln Leu Ser Ile His His Ile Phe Leu Ile
 20 25 30
 Phe Cys Ala Gln Leu Thr Thr Leu Leu Tyr Ser Thr Phe Leu Phe Ile
 35 40 45
 Pro Ile Ser Trp Phe Leu Ile Val Pro Gly Ala Val Asp Lys Thr Ile
 50 55 60
 Leu
 65

<210> 629
 <211> 208
 <212> PRT
 <213> Homo sapiens

<400> 629
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
 20 25 30

Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro Lys Tyr Trp
 35 40 45
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
 50 55 60
 Asn Ser Thr Asn His Val Ala Leu Arg Asp Thr Gly Asn Gln Leu Ile
 65 70 75 80
 Val Thr Met Ser Cys Leu Thr Lys Glu Asp Thr Gly Trp Tyr Trp Cys
 85 90 95
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
 100 105 110
 Ile Val Thr Asp Asp Lys Gly Thr Leu Ala Asn Asp Phe Trp Ser Gly
 115 120 125
 Lys Asp Leu Ser Gly Asn Lys Thr Arg Ser Cys Lys Ala Pro Lys Val
 130 135 140
 Val Arg Lys Ala Asp Arg Ser Arg Thr Ser Ile Leu Ile Ile Cys Ile
 145 150 155 160
 Leu Ile Thr Gly Leu Gly Ile Ile Ser Val Ile Ser His Leu Thr Lys
 165 170 175
 Arg Arg Arg Ser Gln Arg Asn Arg Arg Val Gly Asn Thr Leu Lys Pro
 180 185 190
 Phe Ser Arg Val Leu Thr Pro Lys Glu Met Ala Pro Thr Glu Gln Met
 195 200 205

<210> 630
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 630
 Met Gly Trp Leu Trp Leu Glu Leu Leu Gly Leu Ser IleGlu Glu Thr
 1 5 10 15
 Leu Val Trp Ala Phe Leu Asn Lys Phe Leu Asp Ser Ser Ala Ala Leu
 20 25 30
 Leu Trp Arg Ile Leu Gly Lys Ser Asn Leu Ser Thr
 35 40

<210> 631
 <211> 158

<212> PRT

<213> Homo sapiens

<400> 631

```
Met Ala Leu Glu Val Leu Met Leu Leu Ala Val Leu Ile Trp Thr Gly
 1           5           10           15
Ala Glu Asn Leu His Val Lys Ile Ser Cys Ser Leu Asp Trp Leu Met
          20           25           30
Val Ser Val Ile Pro Val Ala Glu Ser Arg Asn Leu Tyr Ile Phe Ala
          35           40           45
Asp Glu Leu His Leu Gly Met Gly Cys Pro Aa Asn Arg Ile His Thr
          50           55           60
Tyr Val Tyr Glu Phe Ile Tyr Leu Val Arg Asp Cys Gly Ile Arg Thr
          65           70           75           80
Arg Val Val Ser Glu Glu Thr Leu Leu Phe Gln Thr Gu Leu Tyr Phe
          85           90           95
Thr Pro Arg Asn Ile Asp His Asp Pro Gln Glu Ile His Leu Glu Cys
          100          105          110
Ser Thr Ser Arg Lys Ser Val Trp Leu Thr Pro Val Ser Thr Glu Asn
          115          120          125
Glu Ile Lys Leu Asp Pro Ser Pro Phe Ile Ala Asp Phe Gln Thr Thr
          130          135          140
Ala Glu Glu Leu Gly Leu Leu Ser Ser Ser Pro Asn Leu Leu
145          150          155
```

<210> 632

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring amino acids

<400> 632

```
Met Glu Leu Glu Arg Cys Ser Val Val Leu Cys Ile Leu Ala As Leu
 1           5           10           15
Ala Val Leu Arg Ala Leu Phe Leu Pro Cys Ile Ile Phe His Cys Val
          20           25           30
Ser Asp Ser Arg Ser Val Asn Arg Glu Thr Lys Val Lys Phe Val Hi
          35           40           45
Thr Ser Val His Gly Val Gly His Ser Phe Val Gln Ser Ala Phe Lys
```

50 55 60
 Ala Phe Xaa Leu Val Pro Pro Glu Ala Val Pro Glu Gln Lys Asp Pro
 65 70 75 80
 Asp Pro Glu Phe Pro Thr Val Lys Tyr Pro Asn Pro Glu Glu Gly Lys
 85 90 95
 Gly Val Leu Val Thr
 100

 <210> 633
 <211> 231
 <212> PRT
 <213> Homo sapiens

 <400> 633
 Met Trp Ala Leu Gln Leu Ser Leu Pro Thr Cys Gly Leu Ala Ala Leu
 1 5 10 15
 Leu Thr His Met Arg Pro Cys Ser Ser Pro Tyr Pro His Ala Gly Leu
 20 25 30
 Ala Ala Leu Leu Thr His Met Gly Pro Cys Arg Ser Pro Tyr Pro His
 35 40 45
 Gly Gly Leu Ala Ala Val Leu Thr His Met Arg Ala Leu Gln Leu Ser
 50 55 60
 Leu Pro Thr Trp Gly Leu Ala Ala Leu Leu Thr His Met Arg Pro Cys
 65 70 75 80
 Ser Ser Pro Tyr Pro His Ala Gly Leu Ala Cys Cys Trp Leu Trp Ser
 85 90 95
 Leu Ser Ser His Arg Ser Leu Gln Val Gln Ala Thr His Arg Leu Val
 100 105 110
 Val Arg Thr Ile Lys Asp Arg Val Met Leu Lys Val Leu Pro Gln Thr
 115 120 125
 Arg Arg Arg Gly Pro Phe Leu Ser Ser Cys Arg Asn Asp Val Met Arg
 130 135 140
 Asn Cys Val Pro Arg His Ala Val Leu Val Thr Thr Cys Val Phe Val
 145 150 155 160
 Ser Phe Pro Thr His Cys Lys Val Gly Ile Thr Gly Pro Ile Thr Gln
 165 170 175
 Val Lys Gln Lys Pro Gly Asn His Ser Ser Pro Cys Pro Val Ile Gln
 180 185 190
 Leu Val Ala Lys Ala Glu Phe Glu Leu Met Leu Pro Ser Val Pro Lys
 195 200 205

Pro Val Tyr Leu Thr Leu Val Leu Ser Cys Trp Cys Leu Cys Asp Val
 210 215 220

Pro Cys Leu Ser Val Ser Leu
 225 230

<210> 634
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 634
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
 1 5 10 15
 Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His
 20 25 30
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu
 35 40 45
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu
 50 55 60
 Ser Val Thr Lys Thr Phe Leu
 65 70

<210> 635
 <211> 230
 <212> PRT
 <213> Homo sapiens

<400> 635
 Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
 1 5 10 15
 Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
 20 25 30
 Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
 35 40 45
 Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
 50 55 60
 Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
 65 70 75 80
 Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
 85 90 95
 Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg

100	105	110
Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly		
115	120	125
Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu		
130	135	140
Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile		
145	150	155
Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile		
165	170	175
Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser		
180	185	190
Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser		
195	200	205
Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr		
210	215	220
Ser Leu Thr Gly Tyr Val		
225	230	

<210> 636
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 636
Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
1 5 10 15
Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
20 25 30
Ser Ala Gly Pro Ala
35

<210> 637
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 637
Met Arg Val Pro Leu Val Leu Ser Trp Ala Phe Val Leu Val Gly Phe
1 5 10 15
Ser Gly Val Tyr Leu Ala Ser Glu Ser Phe Trp Phe Pro Pro Ser Leu
20 25 30

Cys Asp Leu Thr Ser Pro Pro Gly Leu His Leu Trp Lys Phe Ile Arg
 35 40 45
 Asp Leu Val Ser Met Glu Glu Leu Thr Asp Ser Ala Arg Glu Met Gly
 50 55 60
 Tyr Trp Met Met Val Phe Ser Leu Lys Ala Met Phe Pro Val Ser Ser
 65 70 75 80
 Gly Cys Phe Gln Glu Arg Gln Glu Thr Asn Lys Ser Leu Thr Leu Leu
 85 90 95
 Arg Cys Ser Gln Arg Asp Thr Ser Pro Leu Met Asp Gly Gln Thr Trp
 100 105 110
 Ala Arg Val Arg Val Thr Lys Pro Pro Thr Thr Ala Ser Ala Ala Tyr
 115 120 125
 Asn Arg His Ile Arg
 130

<210> 638
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 638
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu
 1 5 10 15
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys Phe Gln Thr Ser
 20 25 30
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn
 35 40

<210> 639
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 639
 Met Val Leu Lys Gln Lys Gln Tyr Leu Phe Thr Val Gly Ile Leu Phe
 1 5 10 15
 Ile Leu Phe Phe Ser Pro Val Asn Ala Val Lys Arg Phe Ile Pro Leu
 20 25 30
 Arg Pro Gly Ser Ser Gln Ala Tyr Met Leu Leu Gly
 35 40

<210> 640
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 640
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1 5 10 15
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
 20 25 30
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asn Asp Leu Asp
 35 40 45
 Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln
 50 55 60
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65 70 75 80
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
 85 90 95
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
 100 105 110

<210> 641
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 641
 Met Phe Leu Lys Val Leu Val Phe Leu Ile Phe Phe Ser Pro Phe Ser
 1 5 10 15
 Ser Ser Leu Phe Ser Gly Glu Ala Val Arg Gly Arg Gly Ala Gly Leu
 20 25 30
 Gly Leu Gly Ile Gly Arg Gly Trp Thr Ser Cys Leu Ser Val Leu Asn
 35 40 45
 Gly Cys Asp Gly Ala Arg Ser His
 50 55

<210> 642
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 642
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 643
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 643
 Met Gly Pro Cys Arg Ala Ser Arg Cys Leu Ser Leu Leu Val Leu Phe
 1 5 10 15

Pro Pro Gly Val Ala Gly Arg Pro Ala Pro Gly Arg Leu His Pro Val
 20 25 30

Pro Thr Gly Pro Leu Pro Arg Met Tyr Ser Ala Gly Ala Arg Gly Arg
 35 40 45

His Gly Ala His
 50

<210> 644
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 644
 Met Asp Gly Gly Pro Gly Ala Phe Ser Arg Ala Trp Val Leu Gln Ile
 1 5 10 15

Pro Trp Leu Leu Leu Ser Gly Gly Asn Phe Ala Leu Cys Glu Pro Arg
 20 25 30

Pro Cys Pro Ser Ala Gly His Pro Trp Gln Glu Ala Gly Leu Pro Ser
 35 40 45

Ser Pro
 50

<210> 645
 <211> 45

<212> PRT
<213> Homo sapiens

<400> 645
Met Leu Val Ser Leu Ile Ile Cys Leu Leu Leu Asp Leu Leu Asn Gln
1 5 10 15
Pro Ser Leu Leu Arg Asp Leu Ile Leu Lys Gln His Thr Gly Asn Pro
20 25 30
His Leu Ser Phe Pro Leu Lys Tyr Ser His Trp Met Gly
35 40 45

<210> 646
<211> 168
<212> PRT
<213> Homo sapiens

<400> 646
Met Val Thr Phe Ile Thr Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
1 5 10 15
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
20 25 30
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Ser Arg
35 40 45
Leu His Gly Gln Pro Asn Cys Gly Glu Thr Arg Phe Trp Gly His Gly
50 55 60
Ser Leu Gln His His Arg Ser Asn Val Phe Asp Ile Leu Val Gly Leu
65 70 75 80
Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Tyr Ser Thr
85 90 95
Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu Leu
100 105 110
Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Phe Arg
115 120 125
Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile Phe
130 135 140
Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val Asn
145 150 155 160
Leu Pro Met Cys Arg Glu Asp Asp
165

<210> 647

<211> 43
 <212> PRT
 <213> Homo sapiens

<400> 647
 Met Asn Leu Ile Phe Arg Leu Pro Cys Ile Leu Leu Thr Cys Ile Tyr
 1 5 10 15
 Val Gln Gln Cys Val Cys Lys Tyr Ile Gly Thr Phe Leu Asn Arg Val
 20 25 30
 Cys Ala Met Cys Lys Gly Leu Leu Thr Val Lys
 35 40

<210> 648
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 648
 Met Ser Gly Leu Ala Ala Ala His Val Phe Arg Val Cys Leu Phe
 1 5 10 15
 Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His GlyLeu Ser
 20 25 30
 Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys
 35 40 45
 Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala
 50 55 60
 Phe Pro Ile Ser Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser
 65 70 75 80
 Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr
 85 90 95
 Ser Phe Ser Val Pro Cys Arg Val Lys
 100 105

<210> 649
 <211> 1887
 <212> PRT
 <213> Homo sapiens

<400> 649
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu SerVal Leu
 1 5 10 15
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Lys Leu Asn Ile Pro Lys
 20 25 30

Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr LeuGlu
35 40 45
Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
50 55 60
Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
65 70 75 80
Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
85 90 95
Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
100 105 110
Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
115 120 125
Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
130 135 140
Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr
145 150 155 160
Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala
165 170 175
Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr
180 185 190
Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val
195 200 205
Ser Gly Met Lys Thr Gly Ser Ser Lys Leu Lys Ala Arg Ile Gln Glu
210 215 220
Ala Val Tyr Lys Asn Val Arg Pro Ala Glu Val Arg Leu Leu Ile Leu
225 230 235 240
Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly
245 250 255
Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr
260 265 270
Glu Leu Ser Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser
275 280 285
Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala
290 295 300
Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu
305 310 315 320
Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro
325 330 335

Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val
 340 345 350
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile
 355 360 365
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp
 370 375 380
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu
 385 390 395 400
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg
 405 410 415
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp
 420 425 430
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val
 435 440 445
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro
 450 455 460
 Trp Gln Pro Lys Thr Gly Ala Tyr Gln Tyr Thr Ile Arg Ala His Gly
 465 470 475 480
 Gly Ser Gly Asn Phe Ser Trp Ser Ser Ser Ser His Leu Val Ala Thr
 485 490 495
 Val Thr Val Lys Gly Val Met Thr Thr Gly Ser Asp Ile Gly Phe Ser
 500 505 510
 Val Ile Gln Ala His Asp Val Gln Asn Pro Leu His Phe Gly Glu Met
 515 520 525
 Lys Val Tyr Val Ile Glu Pro His Ser Met Glu Phe Ala Pro Cys Gln
 530 535 540
 Val Glu Ala Arg Val Gly Gln Ala Leu Glu Leu Pro Leu Arg Ile Ser
 545 550 555 560
 Gly Leu Met Pro Gly Gly Ala Ser Glu Val Val Thr Leu Ser Asp Cys
 565 570 575
 Ser His Phe Asp Leu Ala Val Glu Val Glu Asn Gln Gly Val Phe Gln
 580 585 590
 Pro Leu Pro Gly Arg Leu Pro Pro Gly Ser Glu His Cys Ser Gly Val
 595 600 605
 Arg Val Lys Ala Glu Ala Gln Gly Ser Thr Thr Leu Leu Val Ser Tyr
 610 615 620
 Arg His Gly His Val His Leu Ser Ala Lys Ile Thr Ile Ala Ala Tyr
 625 630 635 640

Leu Pro Leu Lys Ala Val Asp Pro Ser Ser Val Ala Leu Val Thr Leu
 645 650 655
 Gly Ser Ser Lys Glu Met Leu Phe Glu Gly Gly Pro Arg Pro Trp Ile
 660 665 670
 Leu Glu Pro Ser Lys Phe Phe Gln Asn Val Thr Ala Glu Asp Thr Asp
 675 680 685
 Ser Ile Gly Leu Ala Leu Phe Ala Pro His Ser Ser Arg Asn Tyr Gln
 690 695 700
 Gln His Trp Ile Leu Val Thr Cys Gln Ala Leu Gly Glu Gln Val Ile
 705 710 715 720
 Ala Leu Ser Val Gly Asn Lys Pro Ser Leu Thr Asn Pro Phe Pro Ala
 725 730 735
 Val Glu Pro Ala Val Val Lys Phe Val Cys Ala Pro Pro Ser Arg Leu
 740 745 750
 Thr Leu Val Pro Val Tyr Thr Ser Pro Gln Leu Asp Met Ser Cys Pro
 755 760 765
 Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn
 770 775 780
 Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Glu Gly Arg Arg Phe Asp
 785 790 795 800
 Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu
 805 810 815
 Ala Ser Ile Glu Pro Glu Leu Pro Met Gln Leu Val Ser Gln Asp Asp
 820 825 830
 Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His
 835 840 845
 Glu Ala Ser Gly Thr Thr Ala Ile Thr Ala Thr Ala Thr Gly Tyr Gln
 850 855 860
 Glu Ser His Leu Ser Ser Ala Arg Thr Lys Gln Pro His Asp Pro Leu
 865 870 875 880
 Val Pro Leu Ser Ala Ser Ile Glu Leu Ile Leu Val Glu Asp Val Arg
 885 890 895
 Val Ser Pro Glu Glu Val Thr Ile Tyr Asn His Pro Gly Ile Gln Ala
 900 905 910
 Glu Leu Arg Ile Arg Glu Gly Ser Gly Tyr Phe Phe Leu Asn Thr Ser
 915 920 925
 Thr Ala Asp Val Val Lys Val Ala Tyr Gln Glu Ala Arg Gly Val Ala
 930 935 940

Met Val His Pro Leu Leu Pro Gly Ser Ser Thr Ile Met Ile His Asp
 945 950 955 960
 Leu Cys Leu Val Phe Pro Ala Pro Ala Lys Ala Val Val Tyr Val Ser
 965 970 975
 Asp Ile Gln Glu Leu Tyr Ile Arg Val Val Asp Lys Val Glu Ile Gly
 980 985 990
 Lys Thr Val Lys Ala Tyr Val Arg Val Leu Asp Leu His Lys Lys Pro
 995 1000 1005
 Phe Leu Ala Lys Tyr Phe Pro Phe Met Asp Leu Lys Leu Arg Ala Ala
 1010 1015 1020
 Ser Pro Ile Ile Thr Leu Val Ala Leu Asp Glu Ala Leu Asp Asn Tyr
 1025 1030 1035 1040
 Thr Ile Thr Phe Leu Ile Arg Gly Val Ala Ile Gly Gln Thr Ser Leu
 1045 1050 1055
 Thr Ala Ser Val Thr Asn Lys Ala Gly Gln Arg Ile Asn Ser Ala Pro
 1060 1065 1070
 Gln Gln Ile Glu Val Phe Pro Pro Phe Arg Leu Met Pro Arg Lys Val
 1075 1080 1085
 Thr Leu Leu Ile Gly Ala Thr Met Gln Val Thr Ser Glu Gly Gly Pro
 1090 1095 1100
 Gln Pro Gln Ser Asn Ile Leu Phe Ser Ile Ser Asn Glu Ser Val Ala
 1105 1110 1115 1120
 Leu Val Ser Ala Ala Gly Leu Val Gln Gly Leu Ala Ile Gly Asn Gly
 1125 1130 1135
 Thr Val Ser Gly Leu Val Gln Ala Val Asp Ala Glu Thr Gly Lys Val
 1140 1145 1150
 Val Ile Ile Ser Gln Asp Leu Val Gln Val Glu Val Leu Leu Leu Arg
 1155 1160 1165
 Ala Val Arg Ile Arg Ala Pro Ile Met Arg Met Arg Thr Gly Thr Gln
 1170 1175 1180
 Met Pro Ile Tyr Val Thr Gly Ile Thr Asn His Gln Asn Pro Phe Ser
 1185 1190 1195 1200
 Phe Gly Asn Ala Val Pro Gly Leu Thr Phe His Trp Ser Val Thr Lys
 1205 1210 1215
 Arg Asp Val Leu Asp Leu Arg Gly Arg His His Glu Ala Ser Ile Arg
 1220 1225 1230
 Leu Pro Ser Gln Tyr Asn Phe Ala Met Asn Val Leu Gly Arg Val Lys
 1235 1240 1245

Gly Arg Thr Gly Leu Arg Val Val Val Lys Ala Val Asp Pro Thr Ser
 1250 1255 1260
 Gly Gln Leu Tyr Gly Leu Ala Arg Glu Leu Ser Asp Glu Ile Gln Val
 1265 1270 1275 1280
 Gln Val Phe Glu Lys Leu Gln Leu Leu Asn Pro Glu Ile Glu Ala Glu
 1285 1290 1295
 Gln Ile Leu Met Ser Pro Asn Ser Tyr Ile Lys Leu Gln Thr Asn Arg
 1300 1305 1310
 Asp Gly Ala Ala Ser Leu Ser Tyr Arg Val Leu Asp Gly Pro Glu Lys
 1315 1320 1325
 Val Pro Val Val His Val Asp Glu Lys Gly Phe Leu Ala Ser Gly Ser
 1330 1335 1340
 Met Ile Gly Thr Ser Thr Ile Gly Val Ile Ala Gln Glu Pro Phe Gly
 1345 1350 1355 1360
 Ala Asn Gln Thr Ile Ile Val Ala Val Lys Val Ser Pro Val Ser Tyr
 1365 1370 1375
 Leu Arg Val Ser Met Ser Pro Val Leu His Thr Gln Asn Lys Glu Ala
 1380 1385 1390
 Leu Val Ala Val Pro Leu Gly Met Thr Val Thr Phe Thr Val His Phe
 1395 1400 1405
 His Asp Asn Ser Gly Asp Val Phe His Ala His Ser Ser Val Leu Asn
 1410 1415 1420
 Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys Gly Pro Thr
 1425 1430 1435 1440
 Asn Asn Thr Cys Val Val Arg Thr Val Ser Val Gly Leu Thr Leu Leu
 1445 1450 1455
 Arg Val Trp Asp Ala Glu His Pro Gly Leu Ser Asp Phe Met Pro Leu
 1460 1465 1470
 Pro Val Leu Gln Ala Ile Ser Pro Glu Leu Ser Gly Ala Met Val Val
 1475 1480 1485
 Gly Asp Val Leu Cys Leu Ala Thr Val Leu Thr Ser Leu Glu Gly Leu
 1490 1495 1500
 Ser Gly Thr Trp Ser Ser Ser Ala Asn Ser Ile Leu His Ile Asp Pro
 1505 1510 1515 1520
 Lys Thr Gly Val Ala Val Ala Arg Ala Val Gly Ser Val Thr Val Ty
 1525 1530 1535
 Tyr Glu Val Ala Gly His Leu Arg Thr Tyr Lys Glu Val Val Val Ser
 1540 1545 1550

Val Pro Gln Arg Ile Met Ala Arg His Leu His Pro Ile Gln Thr Ser
1555 1560 1565
Phe Gln Glu Ala Thr Ala Ser Lys Val Ile Val Ala Val Gly Asp Arg
1570 1575 1580
Ser Ser Asn Leu Arg Gly Glu Cys Thr Pro Thr Gln Arg Glu Val Ile
1585 1590 1595 1600
Gln Ala Leu His Pro Glu Thr Leu Ile Ser Cys Gln Ser Gln Phe Lys
1605 1610 1615
Pro Ala Val Phe Asp Phe Pro Ser Gln AspVal Phe Thr Val Glu Pro
1620 1625 1630
Gln Phe Asp Thr Ala Leu Gly Gln Tyr Phe Cys Ser Ile Thr Met His
1635 1640 1645
Arg Leu Thr Asp Lys Gln Arg Lys His Leu Ser Met Lys Lys Thr Ala
1650 1655 1660
Leu Val Val Ser Ala Ser Leu Ser Ser Ser His Phe Ser Thr Glu Gln
1665 1670 1675 1680
Val Gly Ala Glu Val Pro Phe Ser Pro Gly Leu Phe Ala Asp Gln Ala
1685 1690 1695
Glu Ile Leu Leu Ser Asn His Tyr Thr Ser Ser Glu Ile Arg Val Phe
1700 1705 1710
Gly Ala Pro Glu Val Leu Glu Asn Leu Glu Val Lys Ser Gly Ser Pro
1715 1720 1725
Ala Val Leu Ala Phe Ala Lys Glu Lys Ser Phe Gly Trp Pro Ser Phe
1730 1735 1740
Ile Thr Tyr Thr Val Gly Val Leu Asp Pro Ala Ala Gly Ser Gln Gly
1745 1750 1755 1760
Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr Asn Gln Ala
1765 1770 1775
Ile Ala Ile Pro Val Thr Val Ala Phe Val Val Asp Arg Arg Gly Pro
1780 1785 1790
Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp Ser Tyr Gln
1795 1800 1805
Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr Ala Val Met
1810 1815 1820
Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu Ala Val Pro
1825 1830 1835 1840
Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro His Tyr Phe
1845 1850 1855

Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro Ala Arg Lys
 1860 1865 1870

Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala Ser His
 1875 1880 1885

<210> 650
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 650
 Met Lys Cys Phe Phe Leu Phe Val Val Ile Leu Ile Ile Met Lys Ser
 1 5 10 15
 Asn Leu Ser Asp Ile Ile Ile Ala Thr Tyr Thr Tyr Cys Ile Pro Asp
 20 25 30
 Tyr Phe Phe His Thr Phe Ile Phe Asn Leu Ser Val Tyr Leu Asn Ser
 35 40 45
 Lys Phe Ile Ser
 50

<210> 651
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 651
 Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
 1 5 10 15
 Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
 20 25 30
 Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
 35 40 45
 Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
 50 55 60
 Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
 65 70 75 80
 Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
 85 90 95
 His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
 100 105 110
 Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
 115 120 125

Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
 130 135 140
 Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
 145 150 155 160
 Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
 165 170 175
 Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
 180 185 190
 Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
 195 200 205
 Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
 210 215 220
 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
 225 230 235 240
 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
 245 250 255
 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
 260 265 270
 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
 275 280 285
 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
 290 295 300
 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys GlyGly Pro Gln Gln
 305 310 315 320
 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
 325 330 335
 Leu Leu Ala Val Ala Ala Gly Val Leu Leu
 340 345

<210> 652
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 652
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr
 1 5 10 15
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu
 20 25 30

Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp
 35 40 45
 Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly
 50 55 60
 Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg
 65 70 75 80
 Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu
 85 90 95
 Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu
 100 105 110
 Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln
 115 120 125
 Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu
 130 135 140
 Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys
 145 150 155

<210> 653
 <211> 30
 <212> PRT
 <213> Homo sapiens

<400> 653
 Met Ala Leu Ser Val Leu Val Leu Leu Leu Leu Ala Val Leu Tyr Glu
 1 5 10 15
 Gly Ile Lys Val Gly Lys Ala Ser Cys Ser Thr Arg Tyr Trp
 20 25 30

<210> 654
 <211> 363
 <212> PRT
 <213> Homo sapiens

<400> 654
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60

Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Cys Met Lys Phe Tyr Ala Arg Val Cys
 115 120 125
 Arg Ser Ser Thr Gly Leu Val Gly His Gln Val Glu Glu Phe Leu Asn
 130 135 140
 Gln Ser Ser Pro Phe Tyr Phe Trp Ile Asn Gly Asp Arg Ile Asp Ser
 145 150 155 160
 Leu Leu Glu Asn Asp Arg Gln Gln Thr His Ala Leu Asp Val Met Gln
 165 170 175
 Asp Ser Phe Asp Arg Ala Ser Ser Ile Met Asp Glu Leu Phe Gln Asp
 180 185 190
 Arg Phe Phe Thr Arg Glu Ala Gln Asp Pro Phe His Phe Ser Pro Phe
 195 200 205
 Ser Ser Phe Gln Arg Arg Pro Phe Phe Phe Asn Ile Lys His Arg Phe
 210 215 220
 Ala Arg Asn Ile Met Pro Phe Pro Gly Tyr Gln Pro Leu Asn Phe His
 225 230 235 240
 Asp Met Phe Gln Pro Phe Phe Asp Met Ile His Gln Ala Gln Gln Ala
 245 250 255
 Met Asp Val Asn Leu His Arg Leu Pro His Phe Pro Met Glu Phe Thr
 260 265 270
 Glu Glu Asp Asn Gln Asp Gly Ala Val Cys Lys Glu Ile Arg His Asn
 275 280 285
 Ser Thr Gly Cys Leu Lys Met Lys Asp Gln Cys Glu Lys Cys Arg Glu
 290 295 300
 Ile Leu Ser Val Asp Cys Ser Ser Asn Asn Pro Ala Gln Val Gln Leu
 305 310 315 320
 Arg Gln Glu Leu Asn Asn Ser Leu Gln Ile Ala Glu Lys Phe Thr Lys
 325 330 335
 Leu Val Arg Arg Ala Ala Ala Val Leu Pro Gly Glu Asp Val Gln His
 340 345 350
 Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val
 355 360

<210> 655
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 655
 Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
 1 5 10 15
 Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
 20 25 30
 Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
 35 40 45
 Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
 50 55 60
 Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Asp
 65 70 75 80
 Val Asn Lys Pro Gln Gly Arg Ala Pro Ala Cys Leu Gln Val Gln Tyr
 85 90 95
 Asn Asp Ile Phe Lys Asn Arg Pro Ala Lys Val Phe Glu Phe Tyr Phe
 100 105 110
 Ile Gln Glu Asn Pro Gln Leu Phe Lys Leu
 115 120

<210> 656
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 656
 Met Ile Lys His Val Ala Trp Leu Ile Phe Thr Asn Cys Ile Phe Phe
 1 5 10 15
 Cys Pro Val Ala Phe Phe Ser Phe Ala Pro Leu Ile Thr Ala Ile Ser
 20 25 30
 Ile Ser Pro Glu Ile Met Lys Ser Val Thr Leu Ile Phe Phe Pro Cys
 35 40 45
 Leu Leu Ala
 50

<210> 657
 <211> 72

<212> PRT
<213> Homo sapiens

<400> 657

Met	Gly	Ser	Ala	Ala	Leu	Glu	Ile	Leu	Gly	Leu	Val	Leu	Cys	Leu	Val
1				5					10					15	
Gly	Trp	Gly	Gly	Leu	Ile	Leu	Ala	Cys	Gly	Leu	Pro	Met	Trp	Gln	Val
			20					25					30		
Thr	Ala	Phe	Leu	Asp	His	Asn	Ile	Val	Thr	Ala	Gln	Thr	Thr	Trp	Lys
		35					40					45			
Gly	Leu	Trp	Met	Ser	Cys	Val	Val	Gln	Ser	Thr	Gly	Thr	Cys	Ser	Ala
	50					55					60				
Lys	Cys	Thr	Thr	Arg	Cys	Trp	Leu								
65					70										

<210> 658
<211> 118
<212> PRT
<213> Homo sapiens

<400> 658

Met	Cys	Tyr	Leu	Leu	Leu	Leu	Ile	Gln	Thr	Ala	Glu	Leu	Leu	Ile	
1				5				10					15		
His	Pro	Gln	Gly	Leu	Gln	Ala	Val	Ser	Asn	Gly	Glu	Ser	Ala	Leu	Lys
			20					25					30		
Gly	Thr	Arg	Pro	Thr	Phe	Ser	Ser	Pro	Phe	Ile	Leu	Val	Thr	Glu	Gly
		35					40					45			
Arg	Lys	Glu	Trp	Glu	Gly	Val	Phe	Leu	Ser	Ser	Gly	Trp	Lys	Gly	Asn
	50					55					60				
Thr	Leu	Ser	Asn	Tyr	Tyr	Ile	Ser	Leu	Val	Phe	Tyr	Tyr	Ser	Arg	Ile
65					70					75					80
Leu	Gln	Pro	Tyr	Phe	Tyr	Cys	Leu	Trp	Gly	Lys	Leu	Glu	Met	Val	Thr
				85					90					95	
Leu	Ile	Arg	Ser	Val	Trp	Arg	Gly	Ile	Asn	Gly	Gly	Asp	Lys	Ile	Ser
		100						105					110		
Val	Gly	Phe	Gly	Lys	Cys										
			115												

<210> 659
<211> 169
<212> PRT
<213> Homo sapiens

<400> 659

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser
1 5 10 15
Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly
20 25 30
Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln
35 40 45
Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys
50 55 60
Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys
65 70 75 80
Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro
85 90 95
Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu
100 105 110
Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly
115 120 125
Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala
130 135 140
Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala
145 150 155 160
Met Gln Thr Gly Ser Pro Ala Ser Thr
165

<210> 660

<211> 47

<212> PRT

<213> Homo sapiens

<400> 660

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly
1 5 10 15
Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly LeuMet Gln
20 25 30
Tyr Val Ala Gly Cys Ser Ser Ser Trp Glu Gly Lys Gln Trp Asn
35 40 45

<210> 661

<211> 203

<212> PRT

<213> Homo sapiens

<400> 661

Met Gln Leu Gly Ser Val Leu Leu Thr Arg Cys Pro Phe Trp Gly Cys
1 5 10 15
Phe Ser Gln Leu Met Leu Tyr Ala Glu Arg Ala Glu Ala Arg Arg Lys
20 25 30
Pro Asp Ile Pro Val Pro Tyr Leu Tyr Phe Asp Met Gly Ala Ala Val
35 40 45
Leu Cys Ala Ser Phe Met Ser Phe Gly Val Lys Arg Arg Trp Phe Ala
50 55 60
Leu Gly Ala Ala Leu Gln Leu Ala Ile Ser Thr Tyr Ala Ala Tyr Ile
65 70 75 80
Gly Gly Tyr Val His Tyr Gly Asp Trp Leu Lys Val Arg Met Tyr Ser
85 90 95
Arg Thr Val Ala Ile Ile Gly Gly Phe Leu Val Leu Ala Ser Gly Ala
100 105 110
Gly Glu Leu Tyr Arg Arg Lys Pro Arg Ser Arg Ser Leu Gln Ser Thr
115 120 125
Gly Gln Val Phe Leu Gly Ile Tyr Leu Ile Cys Val Ala Tyr Ser Leu
130 135 140
Gln His Ser Lys Glu Asp Arg Leu Ala Tyr Leu Asn His Leu Pro Gly
145 150 155 160
Gly Glu Leu Met Ile Gln Leu Phe Phe Val Leu Tyr Gly Ile Leu Ala
165 170 175
Pro Gly Leu Ser Val Arg Leu Leu Arg Asp Pro Arg Cys Pro Asp Pro
180 185 190
Gly Cys Thr Ala Ala Pro Cys His Ala Ala His
195 200

<210> 662

<211> 123

<212> PRT

<213> Homo sapiens

<400> 662

Met His Asp Gly Ser Lys Pro Phe Pro Arg Tyr Gly Tyr Lys Pro Ser
1 5 10 15
Pro Pro Asn Gly Cys Gly Ser Pro Leu Phe Gly Val His Leu Asn Ile
20 25 30
Gly Ile Pro Ser Leu Thr Lys Cys Cys Asn Gln His Asp Arg Cys Tyr

35 40 45
 Glu Thr Cys Gly Lys Ser Lys Asn Asp Cys Asp Glu Glu Phe Gln Tyr
 50 55 60
 Cys Leu Ser Lys Ile Cys Arg Asp Val Gln Lys Thr Leu Gly Leu Thr
 65 70 75 80
 Gln His Val Gln Ala Cys Glu Thr Thr Val Gln Leu Leu Phe Asp Ser
 85 90 95
 Val Ile His Leu Gly Cys Lys Pro Tyr Leu Asp Ser Gln Arg Ala Ala
 100 105 110
 Cys Arg Cys His Tyr Glu Glu Lys Thr Asp Leu
 115 120

<210> 663
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 663
 Leu Gly Ser Leu Ser Thr Ala Pro Ser Ser Ala Leu Pro Thr Leu Gly
 1 5 10 15
 Ala Arg Arg Thr Arg Ser Lys
 20

<210> 664
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 664
 Met Gly Asn Cys Gln Ala Gly His Asn Leu His Leu Cys Leu Ala His
 1 5 10 15
 His Pro Pro Leu Val Cys Ala Thr Leu Ile Leu Leu Leu Gly Leu
 20 25 30
 Ser Gly Leu Gly Leu Gly Ser Phe Leu Leu Thr His Arg Thr Gly Leu
 35 40 45
 Arg Thr Leu Thr Ser Pro Arg Thr Gly Ser Leu Phe
 50 55 60

<210> 665
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 665

Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile
1 5 10 15
Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser
20 25 30
Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp
35 40 45
Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro
50 55 60
Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly
65 70 75 80
Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys
85 90 95
Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser
100 105 110
Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly
115 120 125
Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys
130 135 140
Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile
145 150 155 160
Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His
165 170 175

Cys Arg

<210> 666

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring amino acids

<400> 666

Ala Ala Ala Thr Ala Ala Ser Leu Ser Pro Arg Gly Cys Arg Leu Arg
1 5 10 15
Thr Pro Ser Ser Asp Val Ser Pro Ser Arg Ala Pro Pro Pro Ser Ala
20 25 30

Ala Pro Leu Pro Thr Gly Arg Ala Xaa Met Ser Pro Ser Gly Arg Leu
 35 40 45
 Cys Leu Leu Thr Ile Val Gly Leu Ile Leu Pro Thr Arg Gly Gln Thr
 50 55 60
 Leu Lys Asp Thr Thr Ser Ser Ser Ala Asp Ser Thr Ile Met Asp
 65 70 75 80
 Ile Gln Val Pro Thr Arg Ala Pro Asp Ala Val Tyr Thr Glu Leu Gln
 85 90 95
 Pro Thr Ser Pro Thr Pro Thr Trp Pro Ala Asp Glu Thr Pro Gln Pro
 100 105 110
 Gln Thr Gln Thr Gln Gln Leu Glu Gly Thr Asp Gly Pro Leu Val Thr
 115 120 125
 Asp Pro Glu Thr His Lys Ser Thr Lys Ala Ala His Pro Thr Asp Asp
 130 135 140
 Thr Thr Thr Leu Ser Glu Arg Pro SerPro Ser Thr Asp Val Gln Thr
 145 150 155 160
 Asp Pro Gln Thr Leu Lys Pro Ser Gly Phe His Glu Asp Asp Pro Phe
 165 170 175
 Phe Tyr Asp Glu His Thr Leu Arg Lys Arg Gly Leu Leu Val Ala Ala
 180 185 190
 Val Leu Phe Ile Thr Gly Ile Ile Ile Leu Thr Ser Gly Lys Cys Arg
 195 200 205
 Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg
 210 215

<210> 667
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 667
 Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
 1 5 10 15
 Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
 20 25 30
 Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
 35 40 45
 Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
 50 55 60
 Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys

65		70		75		80									
Arg	Pro	Glu	Glu	Pro	Gly	His	Cys	Val	Ala	Gln	Ser	Glu	Val	Val	Lys
				85					90					95	
Glu	Gly	Cys	Ser	Ile	Tyr	Asn	Arg	Ser	Glu	Ala	Cys	Pro	Ala	Ala	His
			100					105					110		
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro	Pro
			115				120					125			
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Gly	Ala	Ser	Phe	Ile	Gly
	130					135					140				
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val	Leu
145					150					155					160
His	Phe	Leu	Lys	Ala	Lys	Asp	Ser	Thr	Tyr	Gln	Thr	Leu			
			165						170						

<210> 668
 <211> 210
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (139)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (187)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 668
Met Glu Ala Pro Gly Pro Arg Ala Leu Arg Thr Ala Leu Cys Gly Gly
1 5 10 15
Cys Cys Cys Leu Leu Leu Cys Ala Gln Leu Ala Val Ala Gly Lys Gly
20 25 30
Ala Arg Gly Phe Gly Arg Gly Ala Leu Ile Arg Leu Asn Ile Trp Pro
35 40 45
Ala Val Gln Gly Ala Cys Lys Gln Leu Glu Val Cys Glu His Cys Val
50 55 60
Glu Gly Asp Arg Ala Arg Asn Leu Ser Ser Cys Met Trp Glu Gln Cys
65 70 75 80
Arg Pro Glu Glu Pro Gly His Cys Val Ala Gln Ser Glu Val Val Lys
85 90 95
Glu Gly Cys Ser Ile Tyr Asn Arg Ser Glu Ala Cys Pro Ala Ala His

	100		105		110										
His	His	Pro	Thr	Tyr	Glu	Pro	Lys	Thr	Val	Thr	Thr	Gly	Ser	Pro	Pro
	115						120					125			
Val	Pro	Glu	Ala	His	Ser	Pro	Gly	Phe	Asp	Xaa	Ala	Ser	Phe	Ile	Gly
	130					135					140				
Gly	Val	Val	Leu	Val	Leu	Ser	Leu	Gln	Ala	Val	Ala	Phe	Phe	Val	Leu
145					150					155					160
Thr	Ser	Ser	Arg	Pro	Arg	Thr	Ala	Pro	Thr	Arg	Arg	Cys	Glu	Tyr	Leu
			165						170					175	
Ala	Ser	Ser	Lys	Tyr	Leu	Ser	Pro	Ser	Ser	Xaa	Leu	Val	Pro	Ala	His
			180					185					190		
Val	Pro	Phe	Ser	Thr	Gln	Gly	Ala	Val	Phe	Ser	Thr	Gly	Lys	Pro	Ser
	195						200					205			
Gly	Arg														
	210														

<210> 669
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 669															
Met	Ile	Ser	Tyr	Ile	Val	Leu	Leu	Ser	Ile	Leu	Leu	Trp	Pro	Leu	Val
1				5					10					15	
Val	Tyr	His	Glu	Leu	Ile	Gln	Arg	Met	Tyr	Thr	Arg	Leu	Glu	Pro	Leu
			20					25					30		
Leu	Met	Gln	Leu	Asp	Tyr	Ser	Met	Lys	Ala	Glu	Ala	Asn	Ala	Leu	His
		35					40					45			
His	Lys	His	Asp	Lys	Arg	Lys	Arg	Gln	Gly	Lys	Asn	Ala	Pro	Pro	Gly
	50					55					60				
Gly	Asp	Glu	Pro	Leu	Xaa	Glu	Thr	Glu	Ser	Glu	Ser	Glu	Ala	Glu	Leu
65					70					75				80	
Ala	Gly	Phe	Ser	Pro	Val	Val	Asp	Val	Lys	Lys	Thr	Ala	Leu	Ala	Leu
				85					90					95	
Ala	Ile	Tyr	Arg	Leu	Arg	Ala	Val	Arg							
			100					105							

<210> 670
 <211> 89
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (75)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 670
 Met Phe Lys Asp Tyr Pro Pro Ala Ile Lys Pro Ser Tyr Asp Val Leu
 1 5 10 15
 Leu Leu Leu Leu Leu Leu Val Xaa Leu Leu Gln Ala Gly Leu Asn Thr
 20 25 30
 Gly Thr Ala Ile Gln Cys Val Arg Phe Lys Val Ser Ala Arg Leu Gln
 35 40 45
 Gly Ala Ser Trp Asp Thr Gln Asn Gly Pro Gln Glu Arg Leu Ala Gly
 50 55 60
 Glu Val Ala Arg Ser Pro Leu Lys Glu Phe Xaa Lys Glu Lys Ala Trp
 65 70 75 80
 Arg Ala Val Val Val Gln Met Ala Gln
 85

<210> 671
 <211> 127
 <212> PRT
 <213> Homo sapiens

<400> 671
 Met Gly Gln Val Trp Arg Val Pro Pro Leu Leu Leu Ser Val Gln Val
 1 5 10 15
 Phe Leu Thr Met Ala His Ala Phe His Gln Ala Pro Glu Leu Gln Trp
 20 25 30
 Leu Gly Leu Trp Phe Trp Val Arg Leu Phe Ala Gly Gly Asp Gly Gly
 35 40 45
 Leu His Leu Asn Ile Ser Ser Val Thr Leu Pro Leu Leu His Gly Lys
 50 55 60
 Gln Leu Ser Arg Glu Val Pro Ser Cys Gln Gly Lys Pro Arg Leu Gly

65		70		75		80									
Arg	Pro	Pro	Tyr	Lys	Glu	Pro	Gln	Asp	Cys	Ser	His	Gly	Cys	His	Leu
				85					90					95	
Ser	Trp	Lys	Gly	Arg	Phe	Met	Gly	Phe	Pro	Gly	Thr	Pro	Arg	Leu	Ser
			100					105					110		
Trp	Pro	Arg	Gly	Lys	Arg	Trp	Leu	Leu	Gln	Glu	Phe	Asp	Leu	Ser	
		115					120					125			

<210> 672
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 672
 Leu Gly Lys Pro Trp Arg Tyr Pro Thr
 1 5

<210> 673
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 673
 Leu Gln
 1

<210> 674
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 674
 Met Trp Lys Leu Trp Arg Ala Glu Glu Gly Ala Ala Ala Leu Gly Gly
 1 5 10 15
 Ala Leu Phe Leu Leu Leu Phe Ala Leu Gly Val Arg Gln Leu Leu Lys
 20 25 30
 Gln Arg Arg Pro Met Gly Phe Pro Pro Gly Pro Pro Gly Leu Pro Phe
 35 40 45
 Ile Gly Asn Ile Tyr Ser Leu Ala Ala Ser Ser Glu Leu Pro His Val
 50 55 60
 Tyr Met Arg Lys Gln Ser Gln Val Tyr Gly Glu Val Gln Pro Arg Arg
 65 70 75 80
 Ala Pro Gly Arg Glu Gly Arg Gln Ala Gly Pro Gly Trp Pro Gly Pro

	85		90		95
Ser Trp Leu Asp Leu Trp Pro Pro Leu Gly Arg Leu Val Gly Thr Se	100		105		110
Pro Cys Ala Gly Cys Pro Leu Arg Asp Thr Arg Phe Pro Gly Leu Glu	115		120		125
Gly Arg Ser Pro Arg Arg Arg Ala Pro Leu Gln Gly Glu Pro Arg Pro	130		135		140
Cys Arg	145				

<210> 675
 <211> 941
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (807)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (809)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (815)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (819)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 675
 Met Val Phe Leu Pro Leu Lys Trp Ser Leu Ala Thr Met Ser Phe Leu
 1 5 10 15
 Leu Ser Ser Leu Leu Ala Leu Leu Thr Val Ser Thr Pro Ser Trp Cys
 20 25 30
 Gln Ser Thr Glu Ala Ser Pro Lys Arg Ser Asp Gly Thr Pro Phe Pro
 35 40 45
 Trp Asn Lys Ile Arg Leu Pro Glu Tyr Val Ile Pro Val His Tyr Asp
 50 55 60
 Leu Leu Ile His Ala Asn Leu Thr Thr Leu Thr Phe Trp Gly Thr Thr
 65 70 75 80

Lys Val Glu Ile Thr Ala Ser Gln Pro Thr Ser Thr Ile Ile Leu His
 85 90 95
 Ser His His Leu Gln Ile Ser Arg Ala Thr Leu Arg Lys Gly Ala Gly
 100 105 110
 Glu Arg Leu Ser Glu Glu Pro Leu Gln Val Leu Glu His Pro Pro Gln
 115 120 125
 Glu Gln Ile Ala Leu Leu Ala Pro Glu Pro Leu Leu Val Gly Leu Pro
 130 135 140
 Tyr Thr Val Val Ile His Tyr Ala Gly Asn Leu Ser Glu Thr Phe His
 145 150 155 160
 Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Lys Glu Gly Glu Leu Arg Ile
 165 170 175
 Leu Ala Ser Thr Gln Phe Glu Pro Thr Ala Ala Arg Met Ala Phe Pro
 180 185 190
 Cys Phe Asp Glu Pro Ala Phe Lys Ala Ser Phe Ser Ile Lys Ile Arg
 195 200 205
 Arg Glu Pro Arg His Leu Ala Ile Ser Asn Met Pro Leu Val Lys Ser
 210 215 220
 Val Thr Val Ala Glu Gly Leu Ile Glu Asp His Phe Asp Val Thr Val
 225 230 235 240
 Lys Met Ser Thr Tyr Leu Val Ala Phe Ile Ile Ser Asp Phe Glu Ser
 245 250 255
 Val Ser Lys Ile Thr Lys Ser Gly Val Lys Val Ser Val Tyr Ala Val
 260 265 270
 Pro Asp Lys Met Asn Gln Ala Asp Tyr Ala Leu Asp Ala Ala Val Thr
 275 280 285
 Leu Leu Glu Phe Tyr Glu Asp Tyr Phe Ser Ile Pro Tyr Pro Leu Pro
 290 295 300
 Lys Gln Asp Leu Ala Ala Ile Pro Asp Phe Gln Ser Gly Ala Met Glu
 305 310 315 320
 Asn Trp Gly Leu Thr Thr Tyr Arg Glu Ser Ala Leu Leu Phe Asp Ala
 325 330 335
 Glu Lys Ser Ser Ala Ser Ser Lys Leu Gly Ile Thr Met Thr Val Ala
 340 345 350
 His Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp
 355 360 365
 Trp Asn Asp Leu Trp Leu Asn Glu Gly Phe Ala Lys Phe Met Glu Phe
 370 375 380

Val Ser Val Ser Val Thr His Pro Glu Leu Lys Val Gly Asp Tyr Phe
385 390 395 400
Phe Gly Lys Cys Phe Asp Ala Met Glu Val Asp Ala Leu Asn Ser Ser
405 410 415
His Pro Val Ser Thr Pro Val Glu Asn Pro Ala Gln Ile Arg Glu Met
420 425 430
Phe Asp Asp Val Ser Tyr Asp Lys Gly Ala Cys Ile Leu Asn Met Leu
435 440 445
Arg Glu Tyr Leu Ser Ala Asp Ala Phe Lys Ser Gly Ile Val Gln Tyr
450 455 460
Leu Gln Lys His Ser Tyr Lys Asn Thr Lys Asn Glu Asp Leu Trp Asp
465 470 475 480
Ser Met Ala Ser Ile Cys Pro Thr Asp Gly Val Lys Gly Met Asp Gly
485 490 495
Phe Cys Ser Arg Ser Gln His Ser Ser Ser Ser His Trp His Gln
500 505 510
Glu Gly Val Asp Val Lys Thr Met Met Asn Thr Trp Thr Leu Gln Arg
515 520 525
Gly Phe Pro Leu Ile Thr Ile Thr Val Arg Gly Arg Asn Val His Met
530 535 540
Lys Gln Glu His Tyr Met Lys Gly Ser Asp Gly Ala Pro Asp Thr Gly
545 550 555 560
Tyr Leu Trp His Val Pro Leu Thr Phe Ile Thr Ser Lys Ser Asp Met
565 570 575
Val His Arg Phe Leu Leu Lys Thr Lys Thr Asp Val Leu Ile Leu Pro
580 585 590
Glu Glu Val Glu Trp Ile Lys Phe Asn Val Gly Met Asn Gly Tyr Tyr
595 600 605
Ile Val His Tyr Glu Asp Asp Gly Trp Asp Ser Leu Thr Gly Leu Leu
610 615 620
Lys Gly Thr His Thr Ala Val Ser Ser Asn Asp Arg Ala Ser Leu Ile
625 630 635 640
Asn Asn Ala Phe Gln Leu Val Ser Ile Gly Lys Leu Ser Ile Glu Lys
645 650 655
Ala Leu Asp Leu Ser Leu Tyr Leu Lys His Glu Thr Glu Ile Met Pro
660 665 670
Val Phe Gln Gly Leu Asn Glu Leu Ile Pro Met Tyr Lys Leu Met Glu
675 680 685

Lys Arg Asp Met Asn Glu Val Glu Thr GlnPhe Lys Ala Phe Leu Ile
 690 695 700
 Arg Leu Leu Arg Asp Leu Ile Asp Lys Gln Thr Trp Thr Asp Glu Gly
 705 710 715 720
 Ser Val Ser Glu Arg Met Leu Arg Ser Glu Leu LeuLeu Leu Ala Cys
 725 730 735
 Val His Asn Tyr Gln Pro Cys Val Gln Arg Ala Glu Gly Tyr Phe Arg
 740 745 750
 Lys Trp Lys Glu Ser Asn Gly Asn Leu Ser Leu Pro ValAsp Val Thr
 755 760 765
 Leu Ala Val Phe Ala Val Gly Ala Gln Ser Thr Glu Gly Trp Asp Phe
 770 775 780
 Leu Tyr Ser Lys Tyr Gln Phe Ser Leu Ser Ser Thr Glu Lys Ser Gln
 785 790 795 800
 Ile Glu Phe Ala Leu Cys Xaa Pro Xaa Asn Lys Glu Lys Leu Xaa Trp
 805 810 815
 Leu Leu Xaa Glu Ser Phe Lys Gly Asp Lys Ile Lys Thr Gln Glu Phe
 820 825 830
 Pro Gln Ile Leu Thr Leu Ile Gly Arg Asn Pro Val Gly Tyr Pro Leu
 835 840 845
 Ala Trp Gln Phe Leu Arg Lys Asn Trp Asn Lys Leu Val Gln Lys Phe
 850 855 860
 Glu Leu Gly Ser Ser Ser Ile Ala His Met Val Met Gly Thr Thr Asn
 865 870 875 880
 Gln Phe Ser Thr Arg Thr Arg Leu Glu Glu Val Lys Gly Phe Phe Ser
 885 890 895
 Ser Leu Lys Glu Asn Gly Ser Gln Leu Arg Cys Val Gln Gln Thr Ile
 900 905 910
 Glu Thr Ile Glu Glu Asn Ile Gly Trp Met Asp Lys Asn Phe Asp Lys
 915 920 925
 Ile Arg Val Trp Leu Gln Ser Glu Lys Leu Glu Arg Met
 930 935 940

<210> 676
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 676
 Met Thr Gln Gly Lys Leu Ser Val Ala Asn Lys Ala ProGly Thr Glu

1		5		10		15									
Gly	Gln	Gln	Gln	Val	His	Gly	Glu	Lys	Lys	Glu	Ala	Pro	Ala	Val	Pro
			20					25					30		
Ser	Ala	Pro	Pro	Ser	Tyr	Glu	Glu	Ala	Thr	Ser	Gly	Glu	GlyMet	Lys	
		35					40					45			
Ala	Gly	Ala	Phe	Pro	Pro	Ala	Pro	Thr	Ala	Val	Pro	Leu	His	Pro	Ser
	50					55					60				
Trp	Ala	Tyr	Val	Asp	Pro	Ser	Ser	Ser	Ser	Ser	Tyr	Asp	Asn	Gly	Phe
65					70					75					80
Pro	Thr	Gly	Asp	His	Glu	Leu	Phe	Thr	Thr	Phe	Ser	Trp	Asp	Asp	Gln
				85					90					95	
Lys	Val	Arg	Arg	Val	Phe	Val	Arg	Lys	Val	Tyr	Thr	Ile	Leu	Leu	Ile
			100					105					110		
Gln	Leu	Leu	Val	Thr	Leu	Ala	Val	Val	Ala	Leu	Phe	Thr	Phe	Cys	Asp
		115					120					125			
Pro	Val	Lys	Asp	Tyr	Val	Gln	Ala	Asn	Pro	Gly	Trp	Tyr	Trp	Ala	Ser
	130					135					140				
Tyr	Ala	Val	Phe	Phe	Ala	Thr	Tyr	Leu	Thr	Leu	Ala	Cys	Cys	Ser	Gly
145					150					155					160
Pro	Arg	Arg	His	Phe	Pro	Trp	Glu	Pro	Asp	Ser	Pro	Asp	Arg	Leu	Tyr
				165					170					175	
Pro	Val	His	Gly	Leu	Pro	His	Trp	Asp	Ala	Val	Gln	Leu	Leu	Gln	His
			180					185					190		
His	Leu	Arg	Ala	Ala	Val	Pro	Gly	His	His	Gly	Pro	Cys	Leu	Pro	Leu
		195					200					205			
Ser	His	Arg	Leu	Gln	Leu	Pro	Asp	Gln	Val	Arg	Leu	His	Leu	Leu	Pro
	210					215					220				
Gly	Arg	Ala	Leu	Arg	Ala	Ser	His	Asp	Ser	Phe	Leu	Gln	Arg	Thr	His
225					230					235					240
Pro	Gly	His	Pro	Pro	Thr	Leu	Pro	Ile	Cys	Ala	Leu	Ala	Pro	Cys	Ser
				245					250					255	
Leu	Cys	Ser	Thr	Gly	Ser	Gly	Cys	Ile	Tyr	Ile	Val	Pro	Gly	Thr	
			260					265					270		

<210> 677
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 677

Met Ala Tyr Leu Thr Gly Met Leu Ser Ser Tyr Tyr Asn Thr Thr Ser
1 5 10 15
Val Leu Leu Cys Leu Gly Ile Thr Ala Leu Val Cys Leu Ser Val Thr
20 25 30
Val Phe Ser Phe Gln Thr Lys Phe Asp Phe Thr Ser Cys Gln Gly Val
35 40 45
Leu Phe Val Leu Leu Met Thr Leu Phe Phe Ser Gly Leu Ile Leu Asn
50 55 60
Ile Leu Leu Pro Phe Gln Tyr Val Pro Trp Leu His Ala Val Tyr Ala
65 70 75 80
Ala Leu Gly Ala Gly Val Phe Thr Leu Phe Leu Ala Leu Asp Thr Gln
85 90 95
Leu Leu Met Gly Asn Arg Arg His Ser Leu Ser Pro Glu Glu Tyr Ile
100 105 110
Phe Gly Ala Leu Asn Ile Tyr Leu Asp Ile Ile Tyr Ile Phe Thr Phe
115 120 125
Phe Leu Gln Leu Phe Gly Thr Asn Arg Glu
130 135

<210> 678

<211> 157

<212> PRT

<213> Homo sapiens

<400> 678

Met Val Lys Ser Val Ile Phe Leu Ser Phe Trp Gln Gly Met Leu Leu
1 5 10 15
Ala Ile Leu Glu Lys Cys Gly Ala Ile Pro Lys Ile His Ser Ala Arg
20 25 30
Val Ser Val Gly Glu Gly Thr Val Ala Ala Gly Tyr His Asp Phe Ile
35 40 45
Ile Cys Val Glu Met Phe Phe Ala Ala Leu Ala Leu Arg His Pro Phe
50 55 60
Thr Tyr Asn Val Tyr Ala Asp Lys Arg Leu Asp Ala Gln Gly Arg Cys
65 70 75 80
Ala Pro Met Lys Ser Ile Ser Ser Ser Leu Lys Glu Thr Met Asn Pro
85 90 95
His Asp Ile Val Gln Asp Ala Ile His Asn Phe Ser Pro Ala Tyr Gln
100 105 110

Gln Tyr Thr Gln Gln Ser Thr Leu Glu Pro Gly Pro Thr Trp Arg Gly
 115 120 125
 Gly Ala His Gly Leu Ser Arg Ser His Ser Leu Ser Gly Ala Arg Asp
 130 135 140
 Asn Glu Lys Thr Leu Leu Leu Ser Ser Asp Asp Glu Phe
 145 150 155

<210> 679
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 679
 Phe Leu Ser Ser Trp Gln Arg Pro Ala Cys Gly Cys Gln Arg Pro Ala
 1 5 10 15
 Leu Pro Leu His Leu Gly Gly Ala Glu Gln Leu Gly Pro Ser Cys Pro
 20 25 30
 Gly Gly Trp Val Gln Thr Gln Ala Glu Asp Gln Pro Trp Pro Cys Pro
 35 40 45
 Ala Ile Cys Phe His Gln Ala Val Ser Pro Pro Trp Leu Pro Phe Ser
 50 55 60
 Leu Gln Ala Lys Val Leu Leu Ile Pro Thr Pro Leu Val Phe Ala Cys
 65 70 75 80
 Pro Ala Leu Leu Phe Ala Trp Arg Val Gly Gly Ala Gln Trp Gln Gly
 85 90 95
 Ile Ser Gly Pro Trp Gly Arg Gly Asp Gly Asn Met Cys Pro Thr Ala
 100 105 110
 Pro Ser Pro Pro Pro Pro
 115

<210> 680
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 680
 Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Leu Ala Val Trp Val
 1 5 10 15
 Val Ser Phe Gly Val Ala Lys Gln Ala Ile Leu Ile His Asn Glu Arg
 20 25 30
 Arg Val Asp Trp Leu Phe Arg Gly Pro Ser Thr Thr Pro Thr Ser Pro
 35 40 45

Ser Ser Gly Arg Ser Arg Ala Thr Ser Thr Val
50 55

<210> 681
<211> 46
<212> PRT
<213> Homo sapiens

<400> 681
Met Pro Trp Leu Lys Ser Leu Leu His Phe Ser Leu Phe Leu Val Val
1 5 D 15
Phe Ser Thr Leu Ala Val Lys Ser Leu Gly Val Pro Val Ala Ala Gly
20 25 30
Ser Pro Phe Cys Ile Val Asp Val Leu His Phe Ile Leu Leu
35 40 45

<210> 682
<211> 64
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring amino acids

<400> 682
Ser Trp Val Ile Val Val Xaa Ile Trp Gly Tyr Leu Leu Glu Gly His
1 5 10 15
Gly Val Pro Phe Cys Lys Ser Tyr Gly Pro Xaa Pro Trp Lys Leu His
20 25 30
Thr His His Ala Ala Tyr Asn Ser Gly Ser Ser Gln Val Tyr Arg Ile
35 40 45
Leu Gly Asn Ser Pro Cys Pro Val Leu Ile His Cys Ser Phe Ser Gly
50 55 60

<210> 683

<211> 14
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 683
 Trp Lys Gly Leu Leu Glu Gly Ser Xaa Glu Ala Thr Met Xaa
 1 5 10

<210> 684
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 684
 Pro Leu Gly Arg Glu Pro Leu Ala Gly Phe Leu Ser Phe Leu Ser Phe
 1 5 10 15

 Ser Leu Leu Trp Cys Leu Glu Ala Phe Pro Arg Leu Gln Phe Leu Thr
 20 25 30

 Thr Leu Thr Asp Phe Ala Ile Val Leu Ser Pro Pro Leu Ser Phe Pro
 35 40 45

 Lys Leu Thr Leu Trp Arg Leu Ile Lys Arg Lys Asn His Arg Pro Gly
 50 55 60

 Ala Xaa Leu Thr Pro Arg Arg Arg Ala Asn His Leu Arg Cys Gly Val
 65 70 75 80

 Arg Asp Gln Pro Asp Gln Asn Arg Glu Thr Pro Ser Leu Leu Asn Asn
 85 90 95

 Thr Lys Leu Ala Gly Arg Gly Gly Ala Arg Leu
 100 105

<210> 685
 <211> 127
 <212> PRT

<213> Homo sapiens

<400> 685

```
Met  Pro  Arg  Ala  Pro  Trp  Arg  Ile  Pro  Leu  Cys  Ala  Leu  Pro  Thr  Leu
  1              5              10              15

Cys  Leu  Gly  Ser  Pro  Leu  Pro  Ser  Gln  Pro  Thr  His  Pro  Ile  Phe  Tyr
              20              25              30

Asp  His  Arg  Ala  Pro  Thr  Trp  Lys  Met  Ala  His  Pro  Gly  Gly  Pro  Arg
              35              40              45

Ser  Ser  His  Ser  Pro  Arg  Gly  Pro  Gly  Gly  His  Pro  Ala  Leu  Arg  Gln
  50              55              60

Arg  Leu  Pro  Cys  Arg  Arg  Gly  Glu  Pro  Glu  Thr  Ala  Leu  Cys  Ser  Ser
  65              70              75              80

Ala  Pro  Gly  Ala  Gly  Phe  Ala  Glu  Pro  Pro  Cys  Lys  Ala  Ser  Pro  Gly
              85              90              95

Trp  Gly  Pro  Pro  Ser  Arg  Gly  Pro  Gln  Gly  Asp  Arg  Ser  Gln  Gly  Glu
              100             105             110

Trp  Leu  Pro  Ala  Leu  Gly  Thr  Pro  Cys  Gly  Gly  Pro  Asp  Asp  Ser
  115             120             125
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<210> 686

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (57)

<223> Xaa equals any of the naturally occurring amino acids

<400> 686

```
Met  Pro  Arg  Ala  Pro  Trp  Arg  Ile  Pro  Leu  Cys  Ala  Leu  Pro  Thr  Leu
  1              5              10              15

Cys  Leu  Gly  Ser  Pro  Leu  Pro  Ser  Gln  Pro  Thr  His  Pro  Ile  Xaa  Tyr
              20              25              30

Asp  His  Arg  Ala  Pro  Thr  Trp  Lys  Met  Ala  His  Pro  Gly  Gly  Pro  Arg
              35              40              45

Ser  Ser  His  Ser  Pro  Arg  Thr  Trp  Xaa  Thr  Pro  Ser  Ser  Gln  Thr  Lys
  50              55              60
```

Ala Ala Leu Pro Ala Gly Gly Ala Arg Asn Ser Pro Leu Gln Leu Cys
65 70 75 80

Thr Arg Ser Arg Phe Cys Gly Thr ProMet
85 90

<210> 687
<211> 308
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (87)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (185)
<223> Xaa equals any of the naturally occurring amino acids

<400> 687
Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser Pro
1 5 10 15
Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr His
20 25 30
Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu Cys
35 40 45
Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro Thr
50 55 60
His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp Cys
65 70 75 80
Asp Leu Cys Leu Arg Val Xaa Val His Leu Ala Val His Gly His Trp
85 90 95
Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Leu Gly
100 105 110
Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu Ser
115 120 125
Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln Val
130 135 140
Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val Tyr
145 150 155 160
Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser Tyr
165 170 175

Thr Gln Pro Arg Tyr Glu Lys Glu Xaa Asn His Thr Gln Gln Leu Pro
 180 185 190
 Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp Ala
 195 200 205
 Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu Val
 210 215 220
 Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp Asn
 225 230 235 240
 Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Thr Gly
 245 250 255
 Pro Gln Ile Ile Thr Leu Asn His Thr Asp Leu Val Pro Cys Leu Cys
 260 265 270
 Ile Gln Val Trp Pro Leu Glu Pro Asp Ser Val Arg Arg Thr Ser Ala
 275 280 285
 Pro Ser Gly Arg Thr Pro Ala His Thr Arg Thr Ser Gly Lys Pro Pro
 290 295 300
 Asp Cys Asp Cys
 305

<210> 688
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 688
 Met Ser Ser Asp Phe Leu Cys Phe Phe Phe Lys Leu Cys Asn Gln Me
 1 5 10 15
 Ile Leu Cys Phe Phe Phe Arg Gly Ala Glu Tyr Trp Phe Leu Leu Leu
 20 25 30
 Val Val Phe Ser Phe Leu Cys His Ser Cys Phe Phe Phe Val Phe Ser
 35 40 45
 Val Ser Asn Thr Ile Cys Ile
 50 55

<210> 689
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 689
 Met Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala
 1 5 10 15

Leu Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly
 20 25 30

Pro Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly
 35 40

<210> 690
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 690
 Met His Cys Cys Gln Leu Pro Trp Arg Cys Ala Gln Ala Pro Gln Glu
 1 5 10 15

Ala Phe Leu Leu Cys Leu Leu Phe Leu Ile Leu Val Leu Val Leu Leu
 20 25 30

Gly Cys Ser Arg Gly Leu Pro Gly His Thr Pro Trp Arg Leu His Pro
 35 40 45

Ala Ala Ala Ala Leu Leu Ala Pro Leu Leu His Asp Ala Leu Gly Ad
 50 55 60

Cys Gly Phe Gln Gly Pro Glu Tyr Leu Leu Pro Cys Leu Leu Pro Leu
 65 70 75 80

Pro Lys Pro Gly Gln Leu Gln Gly Pro Trp Gly Pro Leu Trp Ala Leu
 85 90 95

Leu Pro

<210> 691
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 691
 Leu Pro Arg Pro Cys Ala Pro Ser Pro Val Trp Arg Gln Val Gly Arg
 1 5 10 15

Glu Glu Ala Ser Leu Leu
 20

<210> 692
 <211> 25
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 692
 Cys Ala Val Arg Phe Arg Glu Gln Xaa Ala Pro Glu Arg Val Phe Leu
 1 5 10 15
 Pro Thr Arg Gly Arg Lys Ser Glu Pro
 20 25

<210> 693
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (48)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (67)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 693
 Met Phe Tyr Lys Leu Thr Leu Ile Leu Cys Glu Leu Ser Val Ala Gly
 1 5 10 15
 Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
 20 25 30
 Ile Cys Ser Gln Arg Asn Pro Pro Gly Arg Cys Leu Leu Lys Ala Xaa
 35 40 45
 Leu Gln Thr Thr Trp Gly Xaa Pro Asp Xaa Gln Phe Pro Gly Cys Pro
 50 55 60
 His Pro Xaa Arg Val Thr Leu Asn Ala Arg Gln Met Gly Asn Gly Lys
 65 70 75 80
 Glu Lys Lys Ala Ala Asp Leu Lys Leu Lys Phe Pro Gln Lys Arg Phe
 85 90 95

Tyr Leu Ser Ala Phe Ser Glu Arg Ile Lys Ala Phe
100 105

<210> 694
<211> 73
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (48)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (68)
<223> Xaa equals any of the naturally occurring amino acids

<400> 694
Met Phe Tyr Lys Leu Thr Leu Ile Leu Qs Glu Leu Ser Val Ala Gly
1 5 10 15
Val Thr Gln Ala Ala Ser Gln Arg Pro Leu Gln Arg Leu Pro Arg His
20 25 30
Ile Cys Ser Gln Arg Xaa Pro Pro Gly Arg Qs Leu Leu Lys Ala Xaa
35 40 45
Leu Gln Thr Thr Trp Xaa Xaa Pro Asp Lys Pro Ile Pro Arg Leu Ser
50 55 60
Pro Pro Leu Xaa Ser Asp Pro Lys Arg
65 70

<210> 695
<211> 81
<212> PRT

<213> Homo sapiens

<400> 695

Met Ser Lys Arg Ser Ala Ser Phe Ile Leu Leu Pro Leu Leu Phe Leu
1 5 10 15
Lys Gly Ser Phe Ala Lys Leu Asn Ala Arg Ile Ser Asp CysLeu Glu
20 25 30
Glu Arg Tyr Cys His Asn Leu Trp Met Val Phe Gln Gly Cys Val Ile
35 40 45
Thr Glu Leu His Leu Ser Arg Met Ser Lys Thr Leu Ser Ser Leu Cys
50 55 60
Tyr Asp Phe Val Ile Asn Val Tyr Ile Phe Phe Lys Phe Leu Asp Ile
65 70 75 80
Thr

<210> 696

<211> 313

<212> PRT

<213> Homo sapiens

<400> 696

Met Ala Gln Leu Glu Gly Tyr Tyr Phe Ser Ala Ala Leu Ser Cys Thr
1 5 10 15
Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
20 25 30
Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
35 40 45
Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
50 55 60
Leu Pro Gly Leu Tyr Leu Val Ser Ile Gly Val Ile Lys Pro Ala Ile
65 70 75 80
Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
85 90 95
Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
100 105 110
Leu Leu Phe Cys Lys Val Gln Pro Arg Asn Lys Ala Ala Ser Ser Ile
115 120 125
Gln Arg Val Leu Ser Thr Leu Thr Leu Ala Val Phe Pro Thr Leu Tyr
130 135 140
Phe Phe Asn Phe Leu Tyr Tyr Thr Glu Ala Gly Ser Met Phe Phe Thr

145		150		155		160
Leu Phe Ala Tyr	Leu Met Cys Leu TyrGly	Asn His Lys Thr Ser Ala				
	165	170			175	
Phe Leu Gly Phe Cys Gly Phe Met Phe Arg Gln Thr Asn Ile Ile Trp						
	180	185			190	
Ala Val Phe Cys Ala Gly Asn Val Ile AlaGln Lys Leu Thr Glu Ala						
	195	200			205	
Trp Lys Thr Glu Leu Gln Lys Lys Glu Asp Arg Leu Pro Pro Ile Lys						
	210	215			220	
Gly Pro Phe Ala Glu Phe Arg Lys Ile Leu Gln Phe Leu Leu AlaTyr						
	225	230			235	240
Ser Met Ser Phe Lys Asn Leu Ser Met Leu Leu Leu Leu Thr Trp Pro						
	245	250			255	
Tyr Ile Leu Leu Gly Phe Leu Phe Cys Ala Phe Val Val ValAsn Gly						
	260	265			270	
Gly Ile Val Ile Gly Asp Arg Ser Ser His Glu Ala Cys Leu His Phe						
	275	280			285	
Pro Gln Leu Phe Tyr Phe Phe Ser Phe Thr Leu Phe Phe Ser Phe Pro						
	290	295			300	
His Leu Leu Ser Gln Gln Ile Asn Lys						
	305	310				

<210> 697

<211> 134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring amino acids

<400> 697

Met Ala Gln Leu Glu Gly Tyr Xaa Phe Ser Aa Ala Leu Ser Cys Thr
1 5 10 15

Phe Leu Val Ser Cys Leu Leu Phe Ser Ala Phe Ser Arg Ala Leu Arg
20 25 30
Glu Pro Tyr Met Asp Glu Ile Phe His Leu Pro Gln Ala Gln Arg Tyr
35 40 45
Cys Glu Gly His Phe Ser Leu Ser Gln Trp Asp Pro Met Ile Thr Thr
50 55 60
Leu Pro Gly Leu Tyr Leu Val Ser Xaa Gly Val Xaa Lys Pro Ala Ile
65 70 75 80
Trp Ile Phe Gly Trp Ser Glu His Val Val Cys Ser Ile Gly Met Leu
85 90 95
Arg Phe Val Asn Leu Leu Phe Ser Val Gly Asn Phe Tyr Leu Leu Tyr
100 105 110
Leu Leu Phe Cys Lys Tyr Asn Pro Glu Thr Arg Leu Pro Gln Val Ser
115 120 125
Arg Glu Ser Cys Gln His
130

<210> 698

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring amino acids

<400> 698

Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu
1 5 10 15
Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu
20 25 30
Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu
35 40 45
Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys
50 55 60
Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu
65 70 75 80
Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp
85 90 95
Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr
100 105 110
Phe Ser Ser Gln Val Leu Leu Pro Leu Leu
115 120

<210> 699

<211> 43

<212> PRT

<213> Homo sapiens

<400> 699

Met Phe Asn Leu Ser Phe Phe Thr Leu Tyr Gly Leu Cys Met Leu Lys
1 5 10 15
Leu His Ser Ala Ser Ser Trp Phe Thr Leu Leu Leu Leu Ile Ser Leu
20 25 30
Phe Leu Ser Val Val Tyr Cys Gln Ser Thr Asn
35 40

<210> 700

<211> 2

<212> PRT

<213> Homo sapiens

<400> 700

Leu His
1

<210> 701

<211> 166

<212> PRT

<213> Homo sapiens

<400> 701

Met Ser Phe Thr Val Ser Met Ala Ile Gly Leu Val Leu Gly Gly Phe
1 5 10 15
Ile Trp Ala Val Phe Ile Cys Leu Ser Arg Arg Arg Arg Ala Ser Ala
20 25 30
Pro Ile Ser Gln Trp Ser Ser Ser Arg Arg Ser Arg Ser Ser Tyr Thr
35 40 45
His Gly Leu Asn Arg Thr Gly Phe Tyr Arg His Ser Gly Cys Glu Arg
50 55 60
Arg Ser Asn Leu Ser Leu Ala Ser Leu Thr Phe Gln Arg Gln Ala Ser
65 70 75 80
Leu Glu Gln Ala Asn Ser Phe Pro Arg Lys Ser Ser Phe Arg Ala Ser
85 90 95
Thr Phe His Pro Phe Leu Gln Cys Pro Pro Leu Pro Val Glu Thr Glu
100 105 110
Ser Gln Leu Val Thr Leu Pro Ser Ser Asn Ile Ser Pro Thr Ile Ser
115 120 125
Thr Ser His Ser Leu Ser Arg Pro Asp Tyr Trp Ser Ser Asn Ser Leu
130 135 140
Arg Val Gly Leu Ser Thr Pro Pro Pro Pro Ala Tyr Glu Ser Ile Ile
145 150 155 160
Lys Ala Phe Pro Asp Ser
165

<210> 702

<211> 26

<212> PRT

<213> Homo sapiens

<400> 702

Gly Leu Phe Leu Gly Gln Met Asn Trp Ile Phe Ser Cys Cys Phe Ser
1 5 10 15
Asn Asn Val Thr Thr Val Lys Lys Arg
20 25

<210> 703

<211> 20

<212> PRT

<213> Homo sapiens

<400> 703

Arg Leu Leu Asn Leu Ser Val Pro Met Phe Thr Phe Ile Val Val Lys
1 5 10 15

Arg Tyr Ala Thr
20

<210> 704

<211> 11

<212> PRT

<213> Homo sapiens

<400> 704

Met Ser Gly Gly Leu Ser Phe Leu Leu Leu Val
1 5 10

<210> 705

<211> 108

<212> PRT

<213> Homo sapiens

<400> 705

Met Lys Ala Leu Cys Leu Leu Leu Leu Pro Val Leu Gly Leu Leu Val
1 5 10 15

Ser Ser Lys Thr Leu Cys Ser Met Glu Glu Ala Ile Asn Glu Arg Ile
20 25 30

Gln Glu Val Ala Gly Ser Leu Ile Phe Arg Ala Ile Ser Ser Ile Gly
35 40 45

Leu Glu Cys Gln Ser Val Thr Ser Arg Gly Asp Leu Ala Thr Cys Pro
50 55 60

Arg Gly Phe Ala Val Thr Gly Cys Thr Cys Gly Ser Ala Cys Gly Ser
65 70 75 80

Trp Asp Val Arg Ala Glu Thr Thr Cys His Cys Gln Cys Ala Gly Met
85 90 95

Asp Trp Thr Gly Ala Arg Cys Cys Arg Val Gln Pro
100 105

<210> 706

<211> 130

<212> PRT

<213> Homo sapiens

<400> 706

Ser Thr Cys Cys Gly Trp Gly Pro Leu Gly His Ser Arg Val Arg Gly

1	5	10	15
Cys His Cys His Leu Gly His Val GlyArg His Gln His Phe Val Val	20	25	30
Thr Asn Ser Thr Val Thr Asn Ile Phe Gly Gln Ile Pro Phe Tyr Thr	35	40	45
Ser Arg Gln Leu Leu Val Cys Asn Pro Thr Gly GlnArg Glu Gly Pro	50	55	60
Val Thr Trp Leu Ser His Cys Pro Ala Pro Gln Met Val Leu Gly Leu	65	70	75
Leu Phe Ser Leu Gly Pro Ala Asn Thr Thr Val Phe Thr SerAla His	85	90	95
Trp Leu Ser Ala Val Val Pro Gly Ser Gln Trp His Val Ser Pro Arg	100	105	110
Ser Ser Leu Ile Pro Gln His Thr Pro Lys Gly Ser Val Ala AsnThr	115	120	125
Leu Asn	130		

<210> 707
 <211> 122
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (19)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (73)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 707
Lys Ala Pro Ser Ser His Pro Gly Leu Thr Cys Val Ser Leu Ser Arg
1 5 10 15
Leu Gln Xaa Ser Leu Ser Leu Cys Phe Pro Ser Gly Pro Cys Trp Ala
20 25 30
Gly Leu Leu Ser Ser Leu Ala Leu Ala Gly Gly Ala Pro Gly Ala Leu
35 40 45
Pro Pro Trp Gln Pro Gly Gln Asp Ser Lys Met Arg Thr Ala Glu Leu
50 55 60
Val Gly Gly Ser His Gly Pro Ala Xaa Gly Pro Gly Glu Ala Glu Pro

65 70 75 80
 Glu Pro Thr Ala Val Val Leu Trp Thr Val Asp Pro Glu Gly Gly Leu
 85 90 95
 Gly Gln Val Pro Ala Glu Gly Pro Gly Gly Leu Cys Val Pro Leu Gly
 100 105 110
 Pro Gly Ala Leu Val Thr Trp Thr Pro Gly
 115 120

<210> 708
 <211> 243
 <212> PRT
 <213> Homo sapiens

<400> 708
 Met Gly Thr Leu Pro Trp Leu Leu Ala Phe Phe Ile Leu Gly Leu Gln
 1 5 10 15
 Ala Trp Asp Thr Pro Thr Ile Val Ser Arg Lys Gln Trp Gly Ala Arg
 20 25 30
 Pro Leu Ala Cys Arg Ala Leu Leu Thr Leu Pro Val Ala Tyr Ile Ile
 35 40 45
 Thr Asp Gln Leu Pro Gly Met Gln Cys Gln Gln Gln Ser Val Cys Ser
 50 55 60
 Gln Met Leu Arg Gly Leu Gln Ser His Ser Val Tyr Thr Ile Gly Trp
 65 70 75 80
 Cys Asp Val Ala Tyr Asn Phe Leu Val Gly Asp Asp Gly Arg Val Tyr
 85 90 95
 Glu Gly Val Gly Trp Asn Ile Gln Gly Leu His Thr Gln Gly Tyr Asn
 100 105 110
 Asn Ile Ser Leu Gly Ile Ala Phe Phe Gly Asn Lys Ile Ser Ser Ser
 115 120 125
 Pro Ser Pro Ala Ala Leu Ser Ala Ala Glu Gly Leu Ile Ser Tyr Ala
 130 135 140
 Ile Gln Lys Gly His Leu Ser Pro Arg Tyr Ile Gln Pro Leu Leu Leu
 145 150 155 160
 Lys Glu Glu Thr Cys Leu Asp Pro Gln His Pro Val Met Pro Arg Lys
 165 170 175
 Val Cys Pro Asn Ile Ile Lys Arg Ser Ala Trp Glu Ala Arg Glu Thr
 180 185 190
 His Cys Pro Lys Met Asn Leu Pro Ala Lys Tyr Val Ile Ile Ile His
 195 200 205

Thr Ala Gly Thr Ser Cys Thr Val Ser Thr Asp Cys Gln Thr Val Val
 210 215 220

Arg Asn Ile Gln Ser Phe His Met Asp Thr Arg Asn Phe Cys Asp Ile
 225 230 235 240

Gly Tyr Gln

<210> 709
 <211> 154
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (150)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 709
 Met Ala Arg His Gly Leu Pro Leu Leu Pro Leu Leu Ser Leu Leu Val
 1 5 10 15

Gly Ala Trp Leu Lys Leu Gly Asn Gly Gln Ala Thr Ser Met Val Gln
 20 25 30

Leu Gln Gly Gly Arg Phe Leu Met Gly Thr Asn Ser Pro Asp Ser Arg
 35 40 45

Asp Gly Glu Gly Pro Val Arg Glu Ala Thr Val Lys Pro Phe Ala Ile
 50 55 60

Asp Ile Phe Pro Val Thr Asn Lys Asp Phe Arg Asp Phe Val Arg Glu
 65 70 75 80

Lys Lys Tyr Arg Thr Glu Ala Glu Met Phe Gly Trp Ser Phe Val Phe
 85 90 95

Glu Asp Phe Val Ser Asp Glu Leu Arg Asn Lys Ala Thr Gln Pro Met
 100 105 110

Lys Ser Val Leu Trp Trp Leu Pro Val Glu Lys Ala Phe Trp Arg Gln
 115 120 125

Pro Ala Gly Pro Gly Ser Gly Ile Arg Glu Arg Leu Glu His Pro Val
 130 135 140

Leu His Val Ser Trp Xaa Asp Ala Arg Ala
 145 150

<210> 710
 <211> 57

<212> PRT
 <213> Homo sapiens

<400> 710
 Met Pro Cys Thr Cys Thr Trp Arg Asn Trp Arg Gln Trp Ile Arg Pro
 1 5 10 15
 Leu Val Ala Val Ile Tyr Leu Val Ser Ile Val Val Ala Val Pro Leu
 20 25 30
 Cys Val Trp Glu Leu Gln Lys Leu Glu Val Gly Ile His Thr Lys Ala
 35 40 45
 Trp Phe Ile Ala Gly Ile Phe Leu Leu
 50 55

<210> 711
 <211> 107
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 711
 Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
 1 5 10 15
 Ala Val Leu Thr Trp Leu Ser Gln Thr Leu Trp Met Pro Ile Tyr Pro
 20 25 30
 Leu Cys Val Leu Ala Glu Ala Phe Ala Ile Tyr Gln Ser Leu Pro Tyr
 35 40 45
 Phe Glu Ser Phe Gly Thr Tyr Ser Thr Lys Leu Pro Phe Asp Leu Ser
 50 55 60
 Ile Tyr Phe Pro Tyr Val Leu Lys Ile Tyr Leu Met Met Leu Phe Ile
 65 70 75 80
 Gly Met Tyr Phe Thr Tyr Ser His Leu Tyr Ser Xaa Arg Arg Asp Ile
 85 90 95
 Leu Gly Ile Phe Pro Ile Lys Lys Lys Lys Met
 100 105

<210> 712
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 712

Met Val Arg Tyr Thr Tyr Ser Met Leu Ser Val Ile Gly Ile Ser Tyr
1 5 10 15

Ala Val Leu Thr Trp Ala Gln Ser Asn Thr Met Asp Ala Asn Leu Ser
20 25 30

Phe Val Cys Ser Cys
35

<210> 713

<211> 46

<212> PRT

<213> Homo sapiens

<400> 713

Met Lys Ser Gln Cys Tyr Ser Pro Ser Tyr Phe Ala Phe Phe Cys Leu
1 5 10 15

Val Phe Phe Gln Ile Thr Ser Ala Ser Ser Gln Thr Leu Arg Gly His
20 25 30

Val Leu Cys Arg Thr Thr Leu Arg Asp Ser Ser Ala Tyr Cys
35 40 45

<210> 714

<211> 442

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (364)

<223> Xaa equals any of the naturally occurring amino acids

<400> 714

Met Trp Phe Thr Tyr Leu Leu Leu Tyr Leu His Ser Val Arg Ala Tyr
1 5 10 15

Ser Ser Arg Gly Ala Gly Cys Cys Cys Cys Trp Ala Arg Trp Arg Arg
20 25 30

Ala Val His Thr Ala Arg Gly Leu Arg Gly Arg Pro Arg Arg Gln Leu
35 40 45

Leu Arg Pro Leu Arg Pro Ala Gln Gly Leu Ala Pro Gly Arg His Arg
50 55 60

Leu Arg Pro Ala Val Leu Pro Leu His Leu Gln Pro Leu Pro Gly Leu
65 70 75 80

Trp Gly Gly His Ala Glu Trp Ala Ala Leu Leu Tyr Tyr Gly Pro Phe
85 90 95

Ile Val Ile Phe Gln Phe Gly Trp Ala Ser Thr Gln Ile Ser His Leu
 100 105 110
 Ser Leu Ile Pro Glu Leu Val Thr Asn Asp His Glu Lys Val Glu Leu
 115 120 125
 Thr Ala Leu Arg Tyr Ala Phe Thr Val Val Ala Asn Ile Thr Val Tyr
 130 135 140
 Gly Ala Ala Trp Leu Leu Leu His Leu Gln Gly Ser Ser Arg Val Glu
 145 150 155 160
 Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln Asp Val
 165 170 175
 Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly Ala Val
 180 185 190
 Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg Pro His
 195 200 205
 Ala Glu Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala Thr Ala
 210 215 220
 Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Pro Ala Phe Tyr
 225 230 235 240
 Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn Leu Ser
 245 250 255
 Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu Pro Lys
 260 265 270
 Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly Phe Leu
 275 280 285
 Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg Asn Met
 290 295 300
 Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp Val
 305 310 315 320
 Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala Val Leu
 325 330 335
 Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala Met Thr
 340 345 350
 Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Xaa Phe Val Tyr Gly
 355 360 365
 Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val Met Ala
 370 375 380
 Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg Ala Cys
 385 390 395 400

Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly Val Gly
405 410 415

Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro Thr Arg
420 425 430

Leu Arg Arg Trp Asp Arg Asp Ala Arg Pro
435 440

<210> 715
<211> 309
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (84)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (111)
<223> Xaa equals any of the naturally occurring amino acids

<400> 715
Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg
1 5 10 15

Ser Tyr Gly Ala Ala Trp Leu Leu Leu XaaPro Ala Gly Ser Ser Arg
20 25 30

Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln
35 40 45

Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val ValGly Val Gly
50 55 60

Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg
65 70 75 80

Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala ProAla
85 90 95

Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala
100 105 110

Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn
115 120 125

Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu
 130 135 140
 Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly
 145 150 155 160
 Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg
 165 170 175
 Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala
 180 185 190
 Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala
 195 200 205
 Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala
 210 215 220
 Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Ala Phe Val
 225 230 235 240
 Tyr Gly Ser Met Ser Phe Leu Asp Lys Val Ala Asn Gly Leu Ala Val
 245 250 255
 Met Ala Ile Gln Ser Leu His Pro Cys Pro Ser Glu Leu Cys Cys Arg
 260 265 270
 Ala Cys Val Ser Phe Tyr His Trp Ala Met Val Ala Val Thr Gly Gly
 275 280 285
 Val Gly Val Ala Ala Ala Leu Cys Leu Cys Ser Leu Leu Leu Trp Pro
 290 295 300
 Thr Arg Leu Arg Arg
 305

<210> 716
 <211> 243
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (111)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 716

Ala Ala Asp Asn Tyr Gly Ile Pro Arg Ala Cys Arg Asn Ser Ala Arg
1 5 10 15
Ser Tyr Gly Ala Ala Trp Leu Leu Leu Xaa Pro Ala Gly Ser Ser Arg
20 25 30
Val Glu Pro Thr Gln Asp Ile Ser Ile Ser Asp Gln Leu Gly Gly Gln
35 40 45
Asp Val Pro Val Phe Arg Asn Leu Ser Leu Leu Val Val Gly Val Gly
50 55 60
Ala Val Phe Ser Leu Leu Phe His Leu Gly Thr Arg Glu Arg Arg Arg
65 70 75 80
Pro His Ala Xaa Glu Pro Gly Glu His Thr Pro Leu Leu Ala Pro Ala
85 90 95
Thr Ala Gln Pro Leu Leu Leu Trp Lys His Trp Leu Arg Glu Xaa Ala
100 105 110
Phe Tyr Gln Val Gly Ile Leu Tyr Met Thr Thr Arg Leu Ile Val Asn
115 120 125
Leu Ser Gln Thr Tyr Met Ala Met Tyr Leu Thr Tyr Ser Leu His Leu
130 135 140
Pro Lys Lys Phe Ile Ala Thr Ile Pro Leu Val Met Tyr Leu Ser Gly
145 150 155 160
Phe Leu Ser Ser Phe Leu Met Lys Pro Ile Asn Lys Cys Ile Gly Arg
165 170 175
Asn Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala
180 185 190
Trp Val Ala Leu Ala Glu Gly Leu Gly Val Ala Val Tyr Ala Ala Ala
195 200 205
Val Leu Leu Gly Ala Gly Cys Ala Thr Ile Leu Val Thr Ser Leu Ala
210 215 220
Met Thr Ala Asp Leu Ile Gly Pro His Thr Asn Ser Gly Leu Ser Cys
225 230 235 240
Thr Ala Pro

<210> 717

<211> 148

<212> PRT

<213> Homo sapiens

<400> 717

Met Ala Gly Ser Pro Leu Leu Trp Gly Pro Arg Ala Gly Gly Val Gly
1 5 10 15
Leu Leu Val Leu Leu Leu Leu Gly Leu Phe Arg Pro Pro Pro Ala Leu
20 25 30
Cys Ala Arg Pro Val Lys Glu Pro Arg Gly Leu Ser Ala Ala Ser Pro
35 40 45
Pro Leu Ala Arg Leu Ala Leu Leu Ala Ala Ser Gly Gly Gln Cys Pro
50 55 60
Glu Val Arg Arg Arg Gly Arg Cys Arg Pro Gly Ala Gly Ala Gly Ala
65 70 75 80
Ser Ala Gly Ala Glu Arg Gln Glu Arg Ala Arg Ala Glu Ala Gln Arg
85 90 95
Leu Arg Ile Ser Arg Arg Ala Ser Trp Arg Ser Cys Cys Ala Ser Gly
100 105 110
Ala Pro Pro Ala Thr Leu Ile Arg Leu Trp Ala Trp Thr Thr Thr Pro
115 120 125
Thr Arg Leu Gln Arg Ser Ser Leu Ala Leu Cys Ser Ala Pro Ala Leu
130 135 140
Thr Leu Pro Pro
145

<210> 718

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring amino acids

<400> 718

Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
1 5 10 15
Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys Ala Ala
20 25 30
Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Ala
35 40 45

Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Leu Pro Xaa Asp Thr Leu
50 55 60
Gly Leu Cys Xaa Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
65 70 75 80
Cys Leu Pro Gly Leu Asp Pro Val Leu Arg Ala Leu
85 90

<210> 719
<211> 190
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring amino acids

<400> 719
Met Pro Val Pro Thr Leu Cys Leu Leu Trp Ala Leu Ala Met Val Thr
1 5 10 15
Arg Pro Ala Ser Ala Ala Pro Met Xaa Gly Pro Glu Leu Ala Gln His
20 25 30
Glu Glu Leu Thr Leu Leu Phe His Gly Thr Leu Gln Leu Gly Gln Ala
35 40 45
Leu Asn Gly Val Tyr Arg Thr Thr Glu Gly Arg Leu Thr Lys Ala Arg
50 55 60
Asn Ser Leu Gly Leu Tyr Gly Arg Thr Ile Glu Leu Leu Gly Gln Glu
65 70 75 80
Val Ser Arg Gly Arg Asp Ala Ala Gln Glu Leu Arg Ala Ser Leu Leu
85 90 95
Glu Thr Gln Met Glu Glu Asp Ile Leu Gln Leu Gln Ala Glu Ala Thr
100 105 110
Ala Glu Val Leu Gly Glu Val Ala Gln Ala Gln Lys Val Leu Arg Asp
115 120 125
Ser Val Gln Arg Leu Glu Val Gln Leu Arg Ser Ala Trp Leu Gly Pro
130 135 140
Ala Tyr Arg Glu Phe Glu Val Leu Lys Ala His Ala Asp Lys Gln Glu
145 150 155 160
Pro Thr Ser Tyr Gly Pro His Arg Pro Arg Gln Arg Gln Arg Arg Glu
165 170 175
Met Val Ala Gln Gln His Arg Leu Arg Gln Ile Gln Glu Arg

180

185

190

<210> 720
 <211> 65
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 720
 Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu
 1 5 10 15
 Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr
 20 25 30
 Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys
 35 40 45
 Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser
 50 55 60
 Leu
 65

<210> 721
 <211> 299
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (172)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (174)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 721
 Gly Gly Glu Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly
 1 5 10 15
 Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly
 20 25 30
 Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly
 35 40 45

Thr Ser Gly Ser Ala Asn Asp Ser Gln His Asp Pro Gly Lys Met Phe
 50 55 60
 Ile Gly Gly Leu Ser Trp Gln Thr SerPro Asp Ser Leu Arg Asp Tyr
 65 70 75 80
 Phe Ser Lys Phe Gly Glu Ile Arg Glu Cys Met Val Met Arg Asp Pro
 85 90 95
 Thr Thr Lys Arg Ser Arg Gly PheGly Phe Val Thr Phe Ala Asp Pro
 100 105 110
 Ala Ser Val Asp Lys Val Leu Gly Gln Pro His His Glu Leu Asp Ser
 115 120 125
 Lys Thr Ile Asp Pro Lys Val Ala Phe Pro ArgArg Ala Gln Pro Lys
 130 135 140
 Met Val Thr Arg Thr Lys Lys Ile Phe Val Gly Gly Leu Ser Ala Asn
 145 150 155 160
 Thr Val Val Glu Asp Val Lys Gln Tyr Phe Glu Xaa PheXaa Lys Val
 165 170 175
 Glu Asp Ala Met Leu Met Phe Asp Lys Thr Thr Asn Arg His Arg Gly
 180 185 190
 Phe Gly Phe Val Thr Phe Glu Asn Glu Asp Val Val Glu LysVal Cys
 195 200 205
 Glu Ile His Phe His Glu Ile Asn Asn Lys Met Val Glu Cys Lys Lys
 210 215 220
 Ala Gln Pro Lys Glu Val Met Phe Pro Pro Gly Thr Arg Gly Arg Ala
 225 230 235 240
 Arg Gly Leu Pro Tyr Thr Met Asp Ala Phe Met Leu Gly Met Gly Met
 245 250 255
 Leu Gly Glu Ser Gly Gln Asp Arg Arg Ser Pro Trp Thr Gly Arg Ala
 260 265 270
 Met Glu Ala Ser Thr Pro Asn Trp Val Thr Tyr Gln Trp Gly Lys Leu
 275 280 285
 Leu His Leu Ser Lys Pro Gln Phe Pro Cys Leu
 290 295

<210> 722
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 722
 Met Ser Val Trp Pro Arg Ser Thr Leu Leu Phe Cys Leu Leu Ser Leu

1	5	10	15
Ser Thr Gly Leu Phe Leu Asp Lys Leu Gly Ile Ile Ile Pro Ile Leu			
20	25	30	
Leu Cys Gly Trp Lys Leu Asn Val Ile Met Met Cys Val Arg Cys Leu			
35	40	45	
His Ser Ala Trp Arg Tyr			
50			

<210> 723
 <211> 306
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (171)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (180)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (182)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (188)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (208)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (210)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (211)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (218)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (219)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 723
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu
 20 25 30
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val
 35 40 45
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser
 50 55 60
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala
 65 70 75 80
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp
 85 90 95
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser
 100 105 110
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val
 115 120 125
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile
 130 135 140
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly
 145 150 155 160
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His
 165 170 175
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg
 180 185 190
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa
 195 200 205
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser
 210 215 220
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro
 225 230 235 240
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys
 245 250 255
 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln
 260 265 270

Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Me Pro
 275 280 285

Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys
 290 295 300

Glu Lys
 305

<210> 724
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 724
 Met Val Ser Pro Leu Ile Ser Ala Leu Phe His Val Pro Phe Leu Trp
 1 5 10 15
 Leu Gly Met Phe Phe Pro His Ser Leu Ser Gly Pro Phe Pro Ser His
 20 25 30
 Leu Arg Arg Ala Ser Ser Ser Arg Lys Pro Leu Val Lys Pro Pro Arg
 35 40 45
 Ala Arg Gln Tyr Pro Pro Leu Ala Ser Ser Gly Tyr Arg Gly Arg Ile
 50 55 60

<210> 725
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 725
 Met Ser Phe Pro His Ala Ser Thr Leu Pro Phe His Lys Leu Ser Asp
 1 5 10 15
 Leu Gln His Thr Leu Pro Asn His Gln Gly
 20 25

<210> 726
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (4)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring amino acids

<400> 726

Val	His	Ala	Xaa	Thr	Pro	Phe	Ala	Gly	Xaa	Cys	Phe	Asp	Pro	Val	Ser
1				5					10					15	

Leu	Tyr	Trp	Cys	Tyr	Xaa	Asn	Pro	Gly	Thr	His	Cys	Tyr	Pro	Thr	Leu
			20						25					30	

Arg	Gly	Xaa	Glu	Gln	Arg	Xaa	Pro	Ser	Xaa	Arg	Ser	His	Ile	Val	Leu
		35					40					45			

Arg	Ser
	50

<210> 727

<211> 957

<212> PRT

<213> Homo sapiens

<400> 727

Met	Ala	Leu	Leu	His	Trp	Gly	Ala	Leu	Trp	Arg	Gln	Leu	Ala	Ser	Pro
1				5					10					15	

Cys	Gly	Ala	Trp	Ala	Leu	Arg	Asp	Thr	Pro	Ile	Pro	Arg	Trp	Lys	Leu
			20						25					30	

Ser	Ser	Ala	Glu	Thr	Tyr	Ser	Arg	Met	Arg	Leu	Lys	Leu	Val	Pro	Asn
			35				40					45			

His His Phe Asp Pro His Leu Glu Ala Ser Ala Bu Arg Asp Asn Leu
 50 55 60
 Gly Glu Val Pro Leu Thr Pro Thr Glu Glu Ala Ser Leu Pro Leu Ala
 65 70 75 80
 Val Thr Lys Glu Ala Lys Val Ser Thr Pro Pro Glu Leu Bu Gln Glu
 85 90 95
 Asp Gln Leu Gly Glu Asp Glu Leu Ala Glu Leu Glu Thr Pro Met Glu
 100 105 110
 Ala Ala Glu Leu Asp Glu Gln Arg Glu Lys Leu Val Leu Ser Aa Glu
 115 120 125
 Cys Gln Leu Val Thr Val Val Ala Val Val Pro Gly Leu Leu Glu Val
 130 135 140
 Thr Thr Gln Asn Val Tyr Phe Tyr Asp Gly Ser Thr Glu Arg Val Glu
 145 150 155 160
 Thr Glu Glu Gly Ile Gly Tyr Asp Phe Arg Arg Pro Leu Ala Gln Leu
 165 170 175
 Arg Glu Val His Leu Arg Arg Phe Asn Leu Arg Arg Ser Ala Leu Glu
 180 185 190
 Leu Phe Phe Ile Asp Gln Ala Asn Tyr Phe Leu Asn Phe Pro Cys Lys
 195 200 205
 Val Gly Thr Thr Pro Val Ser Ser Pro Ser Gln Thr Pro Arg Pro Gln
 210 215 220
 Pro Gly Pro Ile Pro Pro His Thr Gln Val Arg Asn Gln Val Tyr Ser
 225 230 235 240
 Trp Leu Leu Arg Leu Arg Pro Pro Ser Gln Gly Tyr Leu Ser Ser Arg
 245 250 255
 Ser Pro Gln Glu Met Leu Arg Ala Ser Gly Leu Thr Gln Lys Trp Val
 260 265 270
 Gln Arg Glu Ile Ser Asn Phe Glu Tyr Leu Met Gln Leu Asn Thr Ile
 275 280 285
 Ala Gly Arg Thr Tyr Asn Asp Leu Ser Gln Tyr Pro Val Phe Pro Trp
 290 295 300
 Val Leu Gln Asp Tyr Val Ser Pro Thr Leu Asp Leu Ser Asn Pro Ala
 305 310 315 320
 Val Phe Arg Asp Leu Ser Lys Pro Ile Gly Val Val Asn Pro Lys His
 325 330 335
 Ala Gln Leu Val Arg Glu Lys Tyr Glu Ser Phe Glu Asp Pro Ala Gly
 340 345 350

Thr Ile Asp Lys Phe His Tyr Gly Thr His Tyr Ser Asn Ala Ala Gly
 355 360 365
 Val Met His Tyr Leu Ile Arg Val Glu Pro Phe Thr Ser Leu His Val
 370 375 380
 Gln Leu Gln Ser Gly Arg Phe Asp Cys Ser Asp Arg Gln Phe His Ser
 385 390 395 400
 Val Ala Ala Ala Trp Gln Ala Arg Leu Glu Ser Pro Ala Asp Val Lys
 405 410 415
 Glu Leu Ile Pro Glu Phe Phe Tyr Phe Pro Asp Phe Leu Glu Asn Gln
 420 425 430
 Asn Gly Phe Asp Leu Gly Cys Leu Gln Leu Thr Asn Glu Lys Val Gly
 435 440 445
 Asp Val Val Leu Pro Pro Trp Ala Ser Ser Pro Glu Asp Phe Ile Gln
 450 455 460
 Gln His Arg Gln Ala Leu Glu Ser Glu Tyr Val Ser Ala His Leu His
 465 470 475 480
 Glu Trp Ile Asp Leu Ile Phe Gly Tyr Lys Gln Arg Gly Pro Ala Ala
 485 490 495
 Glu Glu Ala Leu Asn Val Phe Tyr Tyr Cys Thr Tyr Glu Gly Ala Val
 500 505 510
 Asp Leu Asp His Val Thr Asp Glu Arg Glu Arg Lys Ala Leu Glu Gly
 515 520 525
 Ile Ile Ser Asn Phe Gly Gln Thr Pro Cys Gln Leu Leu Lys Glu Pro
 530 535 540
 His Pro Thr Arg Leu Ser Ala Glu Glu Ala Ala His Arg Leu Ala Arg
 545 550 555 560
 Leu Asp Thr Asn Ser Pro Ser Ile Phe Gln His Leu Asp Glu Leu Lys
 565 570 575
 Ala Phe Phe Ala Glu Val Val Ser Asp Gly Val Pro Leu Val Leu Ala
 580 585 590
 Leu Val Pro His Arg Gln Pro His Ser Phe Ile Thr Gln Gly Ser Pro
 595 600 605
 Asp Leu Leu Val Thr Val Ser Ala Ser Gly Leu Leu Gly Thr His Ser
 610 615 620
 Trp Leu Pro Tyr Asp Arg Asn Ile Ser Asn Tyr Phe Ser Phe Ser Lys
 625 630 635 640
 Asp Pro Thr Met Gly Ser His Lys Thr Gln Arg Leu Leu Ser Gly Pro
 645 650 655

Trp Val Pro Gly Ser Gly Val Ser Gly Gln Ala Leu Ala Val Ala Pro
 660 665 670
 Asp Gly Lys Leu Leu Phe Ser Gly Gly His Trp Asp Gly Ser Leu Arg
 675 680 685
 Val Thr Ala Leu Pro Arg Gly Lys Leu Leu Ser Gln Leu Ser Cys His
 690 695 700
 Leu Asp Val Val Thr Cys Leu Ala Leu Asp Thr Cys Gly Ile Tyr Leu
 705 710 715 720
 Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His
 725 730 735
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu
 740 745 750
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu
 755 760 765
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr
 770 775 780
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr
 785 790 795 800
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile
 805 810 815
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr
 820 825 830
 Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro
 835 840 845
 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu
 850 855 860
 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu
 865 870 875 880
 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val
 885 890 895
 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly
 900 905 910
 Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser
 915 920 925
 Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val
 930 935 940
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg
 945 950 955

<210> 728
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 728
 Met Pro Pro His Arg Gln Thr Asp Gly Gln Met Gly Leu Pro Ala Pro
 1 5 10 15
 Ala Leu Trp Val Trp Gly Leu Leu Leu Ser Ser Ser Phe Gln Thr Leu
 20 25 30
 Leu Pro Ala Phe Pro Lys Pro Pro Ala Leu Asn Leu Gly Cys Ser Thr
 35 40 45
 Arg Pro Ile Pro Ser Phe Leu Lys Ile
 50 55

<210> 729
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 729
 Gln Val Ser Leu Pro Thr Arg Leu Leu Gln Met Pro Gly Met Gly Leu
 1 5 10 15
 Asp Ser Arg Phe Gln Ala Trp Xaa Pro Ser Pro Trp Leu Gly Pro Gln
 20 25 30
 Pro Arg Ala Pro Arg Pro Gly Leu Gln Pro Gly Pro Ser Leu Arg Gly
 35 40 45
 Ala Glu Phe Arg Glu Ser Cys Pro Arg Ser Gln Lys Arg Gly Arg Glu
 50 55 60
 Xaa Gly Arg Pro Cys Pro Gly Cys Arg Pro Gly Gly Trp Gly Leu Pro
 65 70 75 80
 Ala Arg Leu Gly Gln Pro Gln Leu Gln Thr Gly Pro Gly
 85 90

<210> 730
 <211> 172
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 730
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1 5 10 15
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly
 20 25 30
 Leu Leu Gly Glu Lys Thr Arg Gln Leu Leu Glu Phe Asp Ser Thr Asn
 35 40 45
 Val Ser Asp Thr Ala Ala Lys Pro Leu Gly Arg Pro Tyr Pro Pro Tyr
 50 55 60
 Ser Leu Ala Asp Phe Ser Trp Asn Asn Ile Thr Asp Ser Leu Asp Pro
 65 70 75 80
 Ala Thr Leu Ser Ala Thr Phe Gln Gly His Pro Met Asn Asp Pro Thr
 85 90 95
 Arg Thr Phe Ala Asn Gly Ser Leu Ala Phe Arg Val Gln Ala Phe Ser
 100 105 110
 Arg Ser Ser Arg Pro Ala Gln Pro Pro Arg Leu Leu His Thr Ala Asp
 115 120 125
 Thr Cys Gln Leu Glu Val Ala Leu Ile Gly Ala Ser Pro Arg Gly Asn
 130 135 140
 Arg Ser Leu Phe Gly Leu Glu Val Ala Thr Leu Gly Gln Gly Pro Asp
 145 150 155 160
 Cys Pro Ser Met Gln Glu Gln His Ser Xaa Glu Arg
 165 170

<210> 731
 <211> 131
 <212> PRT
 <213> Homo sapiens

<400> 731
 Met Arg Gly Ser Val Glu Cys Thr Trp Gly Trp Gly His Cys Ala Pro
 1 5 10 15
 Ser Pro Leu Leu Leu Trp Thr Leu Leu Leu Phe Ala Ala Pro Phe Gly

	20		25		30										
Leu	Leu	Gly	Glu	Lys	Thr	Arg	Gln	Leu	Leu	Glu	Phe	Asp	Ser	Thr	Asn
		35					40					45			
Val	Ser	Asp	Thr	Ala	Ala	Lys	Pro	Leu	Gly	Arg	Pro	Tyr	Pro	Pro	Tyr
	50					55					60				
Ser	Leu	Ala	Asp	Phe	Ser	Trp	Asn	Asn	Ile	Thr	Asp	Ser	Leu	Asp	Pro
65					70					75					80
Ala	Thr	Leu	Ser	Ala	Thr	Phe	Gln	Gly	His	Pro	Met	Asn	Asp	Pro	Thr
				85					90					95	
Arg	Thr	Phe	Ala	Asn	Gly	Ser	Leu	Ala	Phe	Arg	Ser	Arg	Pro	Phe	Pro
			100					105					110		
Gly	Pro	Ala	Asp	Gln	Pro	Asn	Pro	Leu	Ala	Ser	Cys	Thr	Gln	Gln	Thr
		115					120					125			
Pro	Val	Ser													
	130														

<210> 732
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 732
 Met Cys Phe Leu Met Ile Phe Thr Phe Leu Val Cys Trp Met Pro Tyr
 1 5 10 15
 Ile Val Ile Cys Phe Leu Val Val Asn Gly His Gly His Leu Val Thr
 20 25 30
 Pro Thr Ile Ser Ile Val Ser Tyr Leu Phe Ala Lys Ser Asn Thr Val
 35 40 45
 Tyr Asn Pro Val Ile Tyr Val Phe Met Ile Arg Lys Phe Arg Arg Ser
 50 55 60
 Leu Leu Gln Leu Leu Cys Leu Arg Leu Leu Arg Cys Gln Arg Pro Ala
 65 70 75 80
 Lys Asp Leu Pro Ala Ala Gly Ser Glu Met Gln Ile Arg Pro Ile Val
 85 90 95
 Met Ser Gln Lys Asp Gly Asp Arg Pro Lys Lys Ser Asp Phe Gln Leu
 100 105 110
 Phe Phe His His Phe Tyr His His Gln
 115 120

<210> 733
 <211> 49
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 733
 Met Gly Ala His Ser Phe Gly Phe Gln Leu He Met Ser Val Ser Val
 1 5 10 15
 Leu Trp Gly Arg Leu Cys Leu Tyr Gly Arg Phe Ser Val Ile Thr Phe
 20 25 30
 Ala Ser Pro Pro Thr Thr Phe Met Xaa Ile Gln Qs Cys Ser His Cys
 35 40 45
 Ser

<210> 734
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 734
 Ser Gly Trp Gln Val Pro Ser Ser Val Lys His Leu Pro Tyr Asp Asn
 1 5 10 15
 Leu Arg Ser His Cys Val Ala Asp Glu Gly Glu Thr Glu Val Glu Gly
 20 25 30
 Thr Arg Ala Thr Trp Val Glu His Ser Gly Arg Pro Gly Val Gly Ser
 35 40 45
 Gly Arg Pro Pro Gly Thr Ser Leu Thr Thr Leu Pro Leu Leu Leu Thr
 50 55 60
 His Leu Ser Leu Thr Cys Pro Leu Gly Gly Asp Phe Ser Lys Arg
 65 70 75

<210> 735
 <211> 484
 <212> PRT
 <213> Homo sapiens

<400> 735
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15

Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30
 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Ser Pro Gly Arg
 35 40 45
 Arg Pro Gly Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60
 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80
 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95
 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110
 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125
 Val Lys Ile Glu Phe His Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140
 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160
 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175
 Gly Ala Arg Gly Pro Thr Ser Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Arg Ala Asp
 210 215 220
 Met Glu Ser Leu Lys Met Met Ala Ser Glu Pro Leu Asp Glu His Val
 225 230 235 240
 Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Leu Ser Ser Arg Phe
 245 250 255
 Gln Glu Thr Phe Cys Ala Leu Asp Pro Cys Val Leu Gly Thr His Arg
 260 265 270
 Cys Gln His Val Cys Val Ser Asp Gly Glu Gly Lys His His Cys Glu
 275 280 285
 Cys Ser Gln Gly Tyr Ser Leu Asn Ala Asp Gln Lys Thr Cys Ser Ala
 290 295 300
 Ile Asp Lys Cys Ala Leu Asn Thr His Gly Cys Glu His Ile Cys Val
 305 310 315 320

Asn Asp Arg Thr Gly Ser Tyr His Cys Glu Cys Tyr Glu Gly Tyr Thr
 325 330 335
 Leu Asn Gln Asp Arg Lys Thr Cys Ser Ala Gln Asp Gln Cys Ala Phe
 340 345 350
 Gly Thr His Gly Cys Gln His Ile Cys Val Asn Asp Arg Asp Gly Ser
 355 360 365
 His His Cys Glu Cys Tyr Glu Gly Tyr Thr Leu Asn Ala Asp Asn Lys
 370 375 380
 Thr Cys Ser Val Arg Ser Glu Cys Ala Gly Gly Ser His Gly Cys Gln
 385 390 395 400
 His Leu Cys Val Asp Asp Gly Pro Ala Ala Tyr His Cys Asp Cys Phe
 405 410 415
 Pro Gly Tyr Thr Leu Thr Glu Asp Arg Arg Thr Cys Ala Ala Ile Glu
 420 425 430
 Glu Ala Arg Arg Leu Val Ser Thr Glu Asp Ala Cys Gly Cys Glu Ala
 435 440 445
 Thr Leu Ala Phe Gln Glu Arg Ala Ser Ser Tyr Leu Gln Arg Leu Asn
 450 455 460
 Ala Lys Leu Asp Asp Ile Leu Gly Lys Leu Gln Ala Asp Ala Tyr Gly
 465 470 475 480
 Gln Ile His Arg

<210> 736
 <211> 266
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE

<222> (134)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (183)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (222)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (224)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (255)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 736
 Met Pro Arg His Leu Ser Gly Leu Leu Leu Leu Leu Trp Pro Leu Leu
 1 5 10 15

 Leu Leu Leu Pro Pro Thr Pro Ala Ala Pro Gly Pro Leu Ala Arg Pro
 20 25 30

 Gly Leu Arg Arg Leu Gly Thr Arg Gly Pro Gly Gly Xaa Pro Xaa Arg
 35 40 45

 Arg Pro Xaa Ser Ala Val Pro Thr Arg Ala Pro Tyr Ser Gly Ala Gly
 50 55 60

 Gln Pro Gly Gly Ala Arg Gly Ala Gly Val Cys Arg Ser Arg Pro Leu
 65 70 75 80

 Asp Leu Val Phe Ile Ile Asp Ser Ser Arg Ser Val Arg Pro Leu Glu
 85 90 95

 Phe Thr Lys Val Lys Thr Phe Val Ser Gln Ile Ile Asp Thr Leu Asp
 100 105 110

 Ile Gly Ala Ala Asp Thr Arg Val Ala Val Val Asn Tyr Ala Ser Thr
 115 120 125

 Val Lys Ile Glu Phe Xaa Leu Gln Thr His Ser Asp Lys Gln Ser Leu
 130 135 140

 Lys Gln Ala Val Ala Arg Ile Thr Pro Leu Ser Thr Gly Thr Met Ser
 145 150 155 160

 Gly Leu Ala Ile Gln Thr Ala Met Asp Glu Ala Phe Thr Val Glu Ala
 165 170 175

Gly Ala Arg Gly Pro Thr Xaa Asn Ile Pro Lys Val Ala Ile Ile Val
 180 185 190
 Thr Asp Gly Arg Pro Gln Asp Gln Val Asn Glu Val Ala Ala Arg Ala
 195 200 205
 Arg Ala Ser Gly Ile Glu Leu Tyr Ala Val Gly Val Asp Xaa Ala Xaa
 210 215 220
 Met Glu Ser Leu Gln Asp Glu Trp Pro Ala Lys Pro Leu Asp Glu His
 225 230 235 240
 Val Phe Tyr Val Glu Thr Tyr Gly Val Ile Glu Lys Pro Ser Xaa Arg
 245 250 255
 Phe Gln Glu Thr Leu Leu Arg Ser Trp Asn
 260 265

<210> 737
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 737
 Val Leu Leu Ile Leu
 1 5

<210> 738
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 738
 Lys Met His Phe Asn Lys Asn Lys Ser Ile Leu Lys Ser Phe Ser Phe
 1 5 10 15
 Val Arg Gly Asn Met Asn Glu Ile His Ser Tyr Leu Lys Thr Glu Tyr
 20 25 30
 Phe Thr Ala Lys Thr Leu Asn Ile Ser Arg Ala Tyr His Ile Leu Asn
 35 40 45
 Thr Leu Trp Ser Cys Ser Tyr Phe Asn Ile Pro Gly Ser Gly Gly Gln
 50 55 60
 Leu Ala Cys Leu Trp Leu Arg Ile Cys Phe His AlaCys Phe Leu Ser
 65 70 75 80
 Phe Phe Tyr Leu

<210> 739
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 739
 Leu Gly Gly Tyr Ala Leu Ser Xaa Xaa Xaa Asn Arg Val Thr Asp Xaa
 1 5 10 15
 Val Met Ile Tyr Phe Phe Ile Ile Ile Val Glu Tyr Phe Tyr Gly Lys
 20 25 30
 Ile Phe Val Val Leu Ile Ile Pro Ile Lys Ile Met Pro Asn Thr Lys
 35 40 45
 Tyr Glu Phe Tyr Asp Val His Phe Val Leu Gly Ile Lys Arg Lys Lys
 50 55 60
 His Thr Ser Trp Lys Ser Val Ser Cys Phe Leu Leu Leu
 65 70 75

<210> 740
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 740
 Thr Tyr Ser Phe Cys Val Cys Glu Arg Ala Phe Val Phe Gly Ser Val
 1 5 10 15
 Pro Arg Ala Glu Val Glu Gln Gly Cys Thr Tyr His Gly Lys Gly Gly
 20 25 30
 Arg Lys Glu Asn Trp Ile Ala Cys Asp Leu Trp Trp Asn Leu Phe Leu
 35 40 45

Leu Pro Arg Pro Phe Arg Pro Cys Leu Ile Ser Val Gly His Phe Arg
 50 55 60
 Leu Trp Gln Gly Arg Ala Gly Leu Gln Ser Glu Val Pro Ala Ser Ser
 65 70 75 80
 Leu Glu His Asn

<210> 741
 <211> 161
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (129)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (157)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 741
 Met Thr Thr Trp Ser Cys Leu Val Ala Met Ile Val Ser Gly Val Ile
 1 5 10 15
 Thr Ala Val Trp Ala Val Arg Ala Ala Pro Ile Trp Arg Ser Gln Val
 20 25 30
 Lys Gln Lys Met Arg Ile Gly Lys Gln Gly Asn Cys Arg Pro Pro Arg
 35 40 45
 Cys Ile Cys Ser Ala Leu Gly Leu Leu Ala Pro Trp Met Ala Val Val
 50 55 60
 Leu Ser Gln Leu Ser Val Arg Cys Val Val Ser Trp Val Gln Gly Lys
 65 70 75 80

Pro Ser Ser Pro Arg Pro Arg Gly Ser AlaAla Ser Pro Ala Pro Gly
 85 90 95
 Ala Thr Pro Pro Thr Pro Arg Lys Pro Val Ser Trp Leu Gly Tyr Arg
 100 105 110
 Glu Asn His Arg Pro Lys Lys Pro Lys Ser XaaThr Arg Cys Leu Val
 115 120 125
 Xaa Gln Asn Trp Ser Leu Pro Pro Ile Ser Lys Asp Arg Thr Ala Gly
 130 135 140
 Xaa Xaa Asp Thr Asn Arg Thr Arg Arg Ser Gly Leu Xaa Leu Arg Leu
 145 150 155 160
 Gly

<210> 742
 <211> 325
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (136)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (186)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (234)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 742
 Val Pro Pro Ala Val Cys Pro Ala Gly Xaa Phe Cys Gln Asn Gln Cys
 1 5 10 15
 Phe Thr Lys Arg Gln Tyr Pro Glu Thr Lys Ile Ile Lys Thr Asp Gly
 20 25 30
 Lys Gly Trp Gly Leu Val Ala Lys Arg Asp Ile Arg Lys Gly Glu Phe
 35 40 45
 Val Asn Glu Tyr Val Gly Glu Leu Ile Asp Glu Glu Glu Cys Met Ala

50					55					60					
Arg	Ile	Lys	His	Ala	His	Glu	Asn	Asp	Ile	Thr	His	Phe	Tyr	Met	Leu
65					70					75					80
Thr	Ile	Asp	Lys	Asp	Arg	Ile	Ile	Asp	Ala	Gly	Pro	Lys	Gly	Asn	Tyr
				85					90					95	
Ser	Arg	Phe	Met	Asn	His	Ser	Cys	Gln	Pro	Asn	Cys	Glu	Thr	Leu	Lys
			100					105					110		
Trp	Thr	Val	Asn	Gly	Asp	Thr	Arg	Val	Gly	Leu	Phe	Ala	Val	Cys	Asp
		115					120					125			
Ile	Pro	Ala	Gly	Thr	Glu	Leu	Xaa	Phe	Asn	Tyr	Asn	Leu	Asp	Cys	Leu
	130					135					140				
Gly	Asn	Glu	Lys	Thr	Val	Cys	Arg	Cys	Gly	Ala	Ser	Asn	Cys	Ser	Gly
145					150					155					160
Phe	Leu	Gly	Asp	Arg	Pro	Lys	Thr	Ser	Thr	Thr	Leu	Ser	Ser	Glu	Glu
				165					170					175	
Lys	Gly	Lys	Lys	Thr	Lys	Lys	Lys	Thr	Xaa	Arg	Arg	Arg	Ala	Lys	Gly
			180					185					190		
Glu	Gly	Lys	Arg	Gln	Ser	Glu	Asp	Glu	Cys	Phe	Arg	Cys	Gly	Asp	Gly
		195					200					205			
Gly	Gln	Leu	Val	Leu	Cys	Asp	Arg	Lys	Phe	Cys	Thr	Lys	Ala	Tyr	His
	210					215					220				
Leu	Ser	Cys	Leu	Gly	Leu	Gly	Lys	Arg	Xaa	Phe	Gly	Lys	Trp	Glu	Cys
225					230					235					240
Pro	Trp	His	His	Cys	Asp	Val	Cys	Gly	Lys	Pro	Ser	Thr	Ser	Phe	Cys
				245					250					255	
His	Leu	Cys	Pro	Asn	Ser	Phe	Cys	Lys	Glu	His	Gln	Asp	Gly	Thr	Ala
			260					265					270		
Phe	Ser	Cys	Thr	Pro	Asp	Gly	Arg	Ser	Tyr	Cys	Cys	Glu	His	Asp	Leu
		275					280					285			
Gly	Ala	Ala	Ser	Val	Arg	Ser	Thr	Lys	Thr	Glu	Lys	Pro	Pro	Pro	Glu
	290					295					300				
Pro	Gly	Lys	Pro	Lys	Gly	Lys	Arg	Arg	Arg	Arg	Arg	Gly	Trp	Arg	Arg
305					310					315					320
Val	Thr	Glu	Gly	Lys											
				325											

<210> 743

<211> 40

<212> PRT
<213> Homo sapiens

<400> 743

Met	Val	Ala	Met	Val	Phe	Leu	Lys	Ile	Ser	Val	Leu	Pro	Leu	Met	Cys
1				5					10					15	
Arg	Gly	Gln	Thr	Lys	His	Lys	Val	Leu	Arg	Asp	His	Ala	Tyr	Pro	Arg
			20					25					30		
Val	Ser	Gln	Lys	Arg	Gly	His	Ile								
		35					40								

<210> 744
<211> 173
<212> PRT
<213> Homo sapiens

<400> 744

Met	Val	Phe	Leu	Lys	Phe	Phe	Cys	Met	Ser	Phe	Phe	Cys	His	Leu	Cys
1				5					10					15	
Gln	Gly	Tyr	Phe	Asp	Gly	Pro	Leu	Tyr	Pro	Glu	Met	Ser	Asn	Gly	Thr
			20					25					30		
Leu	His	His	Tyr	Phe	Val	Pro	Asp	Gly	Asp	Tyr	Glu	Glu	Asn	Asp	Asp
		35					40					45			
Pro	Glu	Lys	Cys	Gln	Leu	Leu	Phe	Arg	Val	Ser	Asp	His	Arg	Arg	Cys
	50					55					60				
Ser	Gln	Gly	Glu	Gly	Ser	Gln	Val	Gly	Ser	Leu	Leu	Ser	Leu	Thr	Leu
65					70					75					80
Arg	Glu	Glu	Phe	Thr	Val	Leu	Gly	His	Gln	Val	Glu	Gly	Cys	Trp	Ala
				85					90					95	
Arg	Ala	Gly	Gly	His	Gln	Gln	Lys	His	Leu	Leu	Arg	Pro	Arg	Arg	Gly
		100						105					110		
Arg	Glu	Leu	Trp	Gln	Val	Pro	Ala	Ala	Gly	Val	Pro	Pro	Asp	Arg	Gly
		115					120					125			
Met	Pro	Thr	Pro	Thr	Arg	Thr	Asn	Pro	Ser	Leu	Ser	Trp	Arg	Ala	Ser
	130					135					140				
Ser	Ser	Arg	Ala	Arg	Asn	Arg	Thr	Ala	Gly	Arg	Arg	Ala	Gly	Ser	Thr
145					150					155					160
Arg	Thr	Phe	Trp	Glu	Cys	Trp	Ser	Thr	Pro	Gly	Pro	Cys			
			165						170						

<210> 745

<211> 48
<212> PRT
<213> Homo sapiens

<400> 745
Met Met Leu Tyr Gln Asn Met Leu Leu Tyr Phe Arg Ile Ile Gly Val
1 5 10 15
Leu Ala Leu Asn Phe Ser Ile Ser Pro Ile Phe Phe His Gly Ser Leu
20 25 30
Gly Lys Leu Tyr Val Tyr Ser Ala Ala Lys Tyr Ser Leu Glu Leu Lys
35 40 45

<210> 746
<211> 10
<212> PRT
<213> Homo sapiens

<400> 746
Ile Tyr Gln His Phe Ser Leu Trp Leu Gly
1 5 10

<210> 747
<211> 4
<212> PRT
<213> Homo sapiens

<400> 747
Met Phe Lys Met
1

<210> 748
<211> 80
<212> PRT
<213> Homo sapiens

<400> 748
Met Phe Asp Arg Cys Arg Val Thr Ser Cys Ser Cys Thr Cys Gly Ala
1 5 10 15
Gly Ala Lys Trp Cys Thr His Val Val Ala Leu Cys Leu Phe Arg Ile
20 25 30
His Asn Ala Ser Ala Val Cys Leu Arg Ala Pro Val Ser Glu Ser Leu
35 40 45
Ser Arg Leu Gln Arg Asp Gln Leu Gln Lys Phe Ala Gln Tyr Leu Ile

50 55 60
 Ser Glu Leu Pro Gln Gln Val Gly GluVal Gly Thr Pro Ser Cys Asn
 65 70 75 80

<210> 749
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 749
 Asp Pro Ser Gly Ser Phe Met Gly Arg Ser Val Met Met Arg Ile Leu
 1 5 10 15
 Gly Ser Pro Val Phe Phe Pro Met His Asp Thr Ser Val Cys Leu Thr
 20 25 30
 Tyr Pro Asn Phe Tyr Thr Val Val Ser Pro Thr Gly Ser Arg Pro Pro
 35 40 45
 Ser Arg Asn Trp Asn Ser Glu Thr Pro Gly Asp Glu Glu Leu Gly Phe
 50 55 60
 Glu Ala Ala Val Ala Ala Leu Gly Met Lys Thr Thr Val Ser Glu Ala
 65 70 75 80
 Glu His Pro Leu Leu Cys Glu Gly Thr Arg Arg Glu Lys Gly Asp Leu
 85 90 95
 Ala Leu Ala Leu Met Ile Thr Tyr Lys Asp Asp Gln Ala Lys Leu Lys
 100 105 110
 Lys Lys Ile Ser Arg Ala Trp Trp Arg Ala Pro Val Val Pro Ala Thr
 115 120 125
 Arg Glu Ala Glu Val Gly Glu Leu Leu Glu Pro Arg Ser Leu Arg Leu
 130 135 140
 Gln
 145

<210> 750
 <211> 201
 <212> PRT
 <213> Homo sapiens

<400> 750
 Met Lys Leu Leu Ile Leu Phe Leu Ser His Leu Leu Ser Leu Ala Phe
 1 5 10 15

Gly Ile Leu Cys Leu Ser Val Thr Val Ile Leu Ser Leu Leu Ser
 20 25 30
 Phe Ser Lys Arg Gly Phe Ser Val Arg Ser Phe Gly Thr Gly Thr His
 35 40 45
 Val Lys Leu Pro Gly Pro Ala Pro Asp Lys Pro Asn Val Tyr Asp Phe
 50 55 60
 Lys Thr Thr Tyr Asp Gln Met Tyr Asn Asp Leu Leu Arg Lys Asp Lys
 65 70 75 80
 Glu Leu Tyr Thr Gln Asn Gly Ile Leu His Met Leu Asp Arg Asn Lys
 85 90 95
 Arg Ile Lys Pro Arg Pro Glu Arg Phe Gln Asn Cys Lys Asp Leu Phe
 100 105 110
 Asp Leu Ile Leu Thr Cys Glu Glu Arg Val Tyr Asp Gln Val Val Glu
 115 120 125
 Asp Leu Asn Ser Arg Glu Gln Glu Thr Cys Gln Pro Val His Val Val
 130 135 140
 Asn Val Asp Ile Gln Asp Asn His Glu Glu Ala Thr Leu Gly Ala Phe
 145 150 155 160
 Leu Ile Cys Glu Leu Cys Gln Cys Ile Gln His Thr Glu Asp Met Glu
 165 170 175
 Asn Glu Ile Asp Glu Leu Leu Gln Glu Phe Glu Glu Lys Ser Gly Arg
 180 185 190
 Thr Phe Leu His Thr Val Cys Phe Tyr
 195 200

<210> 751

<211> 392

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (251)

<223> Xaa equals any of the naturally occurring amino acids

<400> 751

Met Ala Pro Trp Pro Pro Lys Gly Leu Val Pro Ala Val Leu Trp Gly
 1 5 10 15
 Leu Ser Leu Phe Leu Asn Leu Pro Gly Pro Ile Trp Leu Gln Pro Ser
 20 25 30
 Pro Pro Pro Gln Ser Ser Pro Pro Pro Gln Pro His Pro Cys His Thr
 35 40 45

Cys Arg Gly Leu Val Asp Ser Phe Asn Lys Gly Leu Glu Arg Thr Ile
50 55 60
Arg Asp Asn Phe Gly Gly Gly Asn Thr Ala Trp Glu Glu Glu Asn Leu
65 70 75 80
Ser Lys Tyr Lys Asp Ser Glu Thr Arg Leu Val Glu Val Leu Glu Gly
85 90 95
Val Cys Ser Lys Ser Asp Phe Glu Cys His Arg Leu Leu Glu Leu Ser
100 105 110
Glu Glu Leu Val Glu Ser Trp Trp Phe His Lys Gln Gln Glu Ala Pro
115 120 125
Asp Leu Phe Gln Trp Leu Cys Ser Asp Ser Leu Lys Leu Cys Cys Pro
130 135 140
Ala Gly Thr Phe Gly Pro Ser Cys Leu Pro Cys Pro Gly Gly Thr Glu
145 150 155 160
Arg Pro Cys Gly Gly Tyr Gly Gln Cys Glu Gly Glu Gly Thr Arg Gly
165 170 175
Gly Ser Gly His Cys Asp Cys Gln Ala Gly Tyr Gly Gly Glu Ala Cys
180 185 190
Gly Gln Cys Gly Leu Gly Tyr Phe Glu Ala Glu Arg Asn Ala Ser His
195 200 205
Leu Val Cys Ser Ala Cys Phe Gly Pro Cys Ala Arg Cys Ser Gly Pro
210 215 220
Glu Glu Ser Asn Cys Leu Gln Cys Lys Lys Gly Trp Ala Leu His His
225 230 235 240
Leu Lys Cys Val Asp Cys Ala Lys Ala Cys Xaa Gly Cys Met Gly Ala
245 250 255
Gly Pro Gly Arg Cys Lys Lys Cys Ser Pro Gly Tyr Gln Gln Val Gly
260 265 270
Ser Lys Cys Leu Asp Val Asp Glu Cys Glu Thr Glu Val Cys Pro Gly
275 280 285
Glu Asn Lys Gln Cys Glu Asn Thr Glu Gly Gly Tyr Arg Cys Ile Cys
290 295 300
Ala Glu Gly Tyr Lys Gln Met Glu Gly Ile Cys Val Lys Glu Gln Ile
305 310 315 320
Pro Glu Ser Ala Gly Phe Phe Ser Glu Met Thr Glu Asp Glu Leu Val
325 330 335
Val Leu Gln Gln Met Phe Phe Gly Ile Ile Ile Cys Ala Leu Ala Thr
340 345 350

Leu Ala Ala Lys Gly Asp Leu Val Phe Thr Ala Ile Phe Ile GlyAla
 355 360 365
 Val Ala Ala Met Thr Gly Tyr Trp Leu Ser Glu Arg Ser Asp Arg Val
 370 375 380
 Leu Glu Gly Phe Ile Lys Gly Arg
 385 390

<210> 752
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 752
 Met Thr Glu Asp Glu Leu Val Val Leu Gln Gln Met Phe Phe Gly Ile
 1 5 10 15
 Ile Ile Cys Ala Leu Ala Thr Leu Ala Ala Lys Gly Asp Leu Val Phe
 20 25 30
 Thr Ala Ile Phe Ile Gly Ala Val Ala Ala Met Thr Gly Tyr Trp Leu
 35 40 45
 Ser Glu Arg Ser Asp Arg Val Leu Glu Gly Phe Ile Lys Gly Arg
 50 55 60

<210> 753
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 753
 Met Thr Val Arg Arg Leu Ser Leu Leu Cys Arg Asp Leu Trp Ala Leu
 1 5 10 15
 Trp Leu Leu Leu Lys Ala Gly Ala ValArg Gly Ala Arg Ala Gly Pro
 20 25 30
 Arg Leu Pro Gly Arg Cys Cys Gly Ala Thr Cys Gly Asp Ala Gly Arg
 35 40 45
 Gly Trp Thr Phe Trp Ala Gln Pro Cys Pro Gln LysLeu Leu Gly Gln
 50 55 60
 Lys Pro Gly Ala Gly Gly Cys Arg Gly Trp Val Leu Gly Trp Val Pro
 65 70 75 80
 Pro Arg Pro Glu Glu Pro Cys Ser Leu Ala Gly Lys Val CysThr Gly
 85 90 95
 Leu Ala Arg Trp Met Val

100

<210> 754
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring amino acids

<400> 754
Met Cys Lys Ala Val Cys Lys His Arg Leu Arg Leu Phe Ala Val Ser
1 5 10 15
Ser Phe Ser Leu Gly Leu Gly Trp Val Cys Val Leu Val Leu Met Leu
20 25 30
Trp Pro Val Arg Leu Ser Leu Ala Xaa Arg Pro Val Gln Leu Gln Gln
35 40 45
Arg Arg Ser His Cys
50

<210> 755
<211> 472
<212> PRT
<213> Homo sapiens

<400> 755
Met Lys Phe Leu Ile Phe Ala Phe Phe Gly Gly Val His Leu Leu Ser
1 5 10 15
Leu Cys Ser Gly Lys Ala Ile Cys Lys Asn Gly Ile Ser Lys Arg Thr
20 25 30
Phe Glu Glu Ile Lys Glu Glu Ile Ala Ser Cys Gly Asp Val Ala Lys
35 40 45
Ala Ile Ile Asn Leu Ala Val Tyr Gly Lys Ala Gln Asn Arg Ser Tyr
50 55 60
Glu Arg Leu Ala Leu Leu Val Asp Thr Val Gly Pro Arg Leu Ser Gly
65 70 75 80
Ser Lys Asn Leu Glu Lys Ala Ile Gln Ile Met Tyr Gln Asn Leu Gln
85 90 95
Gln Asp Gly Leu Glu Lys Val His Leu Glu Pro Val Arg Ile Pro His
100 105 110
Trp Glu Arg Gly Glu Glu Ser Ala Val Met Leu Glu Pro Arg Ile His

115					120					125					
Lys	Ile	Ala	Ile	Leu	Gly	Leu	Gly	Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu
130						135					140				
Gly	Ile	Thr	Ala	Glu	Val	Leu	Val	Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln
145					150					155					160
Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly	Lys	Ile	Val	Val	Ty	Asn	Gln	Pro
				165					170					175	
Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val	Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val
			180					185					190		
Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu	Ala	Ser	Leu	Ile	Arg	Se	Val	Ala
		195					200					205			
Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His	Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp
	210					215					220				
Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala	Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu
225					230					235					240
Met	Met	Ser	Arg	Met	Ala	Ser	His	Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu
				245					250					255	
Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro	Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val
			260					265					270		
Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr	Pro	Glu	Gln	Val	Val	Leu	Val	Ser
		275					280					285			
Gly	His	Leu	Asp	Ser	Trp	Asp	Val	Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly
	290					295					300				
Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	Ala	Leu	Ser	Leu	Ile	Lys	Asp	Leu
305					310					315					320
Gly	Leu	Arg	Pro	Lys	Arg	Thr	Leu	Arg	Leu	Val	Leu	Trp	Thr	Ala	Glu
				325					330					335	
Glu	Gln	Gly	Gly	Val	Gly	Ala	Phe	Gln	Tyr	Tyr	Gln	Leu	His	Lys	Val
			340					345					350		
Asn	Ile	Ser	Asn	Tyr	Ser	Leu	Val	Met	Glu	Ser	Asp	Ala	Gly	Thr	Phe
		355					360					365			
Leu	Pro	Thr	Gly	Leu	Gln	Phe	Thr	Gly	Ser	Glu	Lys	Ala	Arg	Ala	Ile
	370					375					380				
Met	Glu	Glu	Val	Met	Ser	Leu	Leu	Gln	Pro	Leu	Asn	Ile	Thr	Gln	Val
385					390					395				400	
Leu	Ser	His	Gly	Glu	Gly	Thr	Asp	Ile	Asn	Phe	Trp	Ile	Gln	Ala	Gly
			405					410						415	
Val	Pro	Gly	Ala	Ser	Leu	Leu	Asp	Asp	Leu	Tyr	Lys	Tyr	Phe	Phe	Phe

	420		425		430										
His	His	Ser	His	Gly	Asp	Thr	Met	Thr	Val	Met	Asp	Pro	Lys	Gln	Met
	435						440					445			
Asn	Val	Ala	Ala	Ala	Val	Trp	Ala	Val	Val	Ser	Tyr	Val	Val	Ala	Asp
	450					455					460				
Met	Glu	Glu	Met	Leu	Pro	Arg	Ser								
465					470										

<210> 756
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 756
Ser Ile Tyr Ser Pro His Thr Gly Ile Gln Glu Tyr Gln Asp Gly Val
1 5 10 15
Pro Lys Ile Pro Thr Ala Cys Ile Thr Val Glu Asp Ala Glu Met Met
20 25 30
Ser Arg Met Ala Ser His Gly Ile Lys Ile Val Ile Gln Leu Lys Met
35 40 45
Gly Ala Lys Thr Tyr Pro Asp Thr Asp Ser Phe Asn Thr Val Ala Glu
50 55 60
Ile Thr Gly Ser Lys Tyr Pro Glu Gln Val Val Leu Val Ser Gly His
65 70 75 80
Leu Asp Ser Trp Asp Val Gly Gln Gly Ala Met Asp Asp Gly Gly Gly
85 90 95
Ala Phe Ile Ser Trp Glu Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu
100 105 110
Arg Pro Lys Arg Thr Leu Arg Leu Val Leu Trp Thr Ala Glu Glu Gln
115 120 125
Gly Gly Val Gly Ala Phe Gln Tyr Tyr Gln Leu His Lys Val Asn Ile
130 135 140
Ser Asn Tyr Ser Leu Val Met Glu Ser Asp Ala GlyThr Phe Leu Pro
145 150 155 160
Thr Gly Leu Gln Phe Thr Gly Ser Glu Lys Ala Arg Ala Ser Trp Arg
165 170 175
Arg Leu

<210> 757
 <211> 199
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 757
 Met Lys Leu Gly Cys Val Leu Met Ala Trp Ala Leu Tyr Leu Ser Leu
 1 5 10 15
 Gly Val Leu Trp Val Ala Gln Met Leu Leu Ala Ala Ser Phe Glu Thr
 20 25 30
 Leu Gln Cys Glu Gly Pro Val Cys Thr Glu Glu Ser Ser Cys His Thr
 35 40 45
 Glu Asp Asp Leu Thr Asp Ala Arg Glu Ala Gly Phe Gln Val Lys Ala
 50 55 60
 Tyr Thr Phe Ser Glu Pro Phe His Leu Ile Val Ser Tyr Asp Trp Leu
 65 70 75 80
 Ile Leu Gln Gly Pro Ala Lys Pro Val Phe Glu Gly Asp Leu Leu Val
 85 90 95
 Leu Arg Cys Gln Ala Trp Gln Asp Trp Pro Leu Thr Gln Val Thr Phe
 100 105 110
 Tyr Arg Asp Gly Ser Ala Leu Gly Pro Pro Gly Pro Asn Arg Glu Phe
 115 120 125
 Ser Ile Thr Val Val Gln Lys Ala Asp Ser Gly His Tyr Xaa Cys Ser
 130 135 140
 Gly Ile Phe Gln Ser Pro Gly Pro Gly Ile Pro Glu Thr Ala Ser Val
 145 150 155 160
 Val Ala Ile Thr Val Gln Glu Leu Phe Pro Ala Pro Ile Leu Leu Leu
 165 170 175
 Gln Gly Trp Lys Asp Ser Ala Lys Gln Gly Gly Ser Pro Gln Asn Ser
 180 185 190
 Arg Ser Pro Gln Leu Gln Lys
 195

<210> 758
 <211> 2
 <212> PRT
 <213> Homo sapiens

<400> 758
 Ser Trp
 1

<210> 759
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 759
 Cys Leu Glu Thr Phe Trp Ser Leu Tyr Leu Gly Gly Trp Gly Met Val
 1 5 10 15
 Gly Cys Val Cys Tyr Trp His Pro Val Asn Arg Ser Gln Gly Cys Arg
 20 25 30

<210> 760
 <211> 283
 <212> PRT
 <213> Homo sapiens

<400> 760
 Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
 1 5 10 15
 Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
 20 25 30
 Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
 35 40 45
 Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
 50 55 60
 Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Gly Thr Thr Gly Trp
 65 70 75 80
 Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
 85 90 95
 Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
 100 105 110
 Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
 115 120 125
 Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
 130 135 140
 Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr

145		150		155		160									
Val	Pro	Ile	Tyr	Ala	Thr	Gly	Val	Leu	Thr	Cys	Tyr	Ile	Gln	Glu	Glu
				165					170					175	
Asp	Arg	Lys	Leu	Leu	Val	Gly	Phe	Leu	Glu	Asp	Val	Met	Thr	Leu	Leu
			180					185					190		
Ser	Leu	Ser	His	Ala	Pro	Leu	Asp	Ser	Leu	Lys	Ala	Ser	Phe	Val	Glu
			195				200					205			
Leu	Gly	Ala	Asn	Pro	Ala	Tyr	His	Glu	Leu	Leu	Leu	Thr	Val	Leu	Trp
	210					215					220				
Tyr	Gly	Val	Val	His	Thr	Ser	Ala	Leu	Val	Arg	Cys	Thr	Ala	Ala	Arg
225					230					235					240
Met	Phe	Glu	Val	Cys	Gln	His	Met	Pro	Leu	Leu	Val	Ser	Ile	Ile	Met
				245					250					255	
Ile	Phe	Phe	Phe	Leu	Arg	Arg	Arg	Arg	Glu	Phe	Phe	Leu	Ile	Lys	Arg
			260					265					270		
Leu	Cys	Ile	Ser	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
		275						280							

<210> 761

<211> 286

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (224)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (228)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 761

Met Tyr Leu Ser Ala Leu Gln Ser Leu Ile Pro Ser Leu Phe Ala Leu
1 5 10 15

Val Leu Gln Asn Ala Pro Phe Ser Ser Lys Ala Lys Leu His Gly Glu
20 25 30

Val Pro Gln Ile Glu Val Thr Arg Phe Pro Arg Pro Met Ser Pro Leu
35 40 45

Gln Asp Val Ser Thr Ile Ile Gly Ser Arg Glu Gln Leu Ala Val Leu
50 55 60

Leu Gln Leu Tyr Asp Tyr Gln Leu Glu Gln Glu Gly Thr Thr Gly Trp
65 70 75 80

Glu Ser Leu Leu Trp Val Val Asn Gln Leu Leu Pro Gln Leu Ile Glu
85 90 95

Ile Val Gly Lys Ile Asn Val Thr Ser Thr Ala Cys Val His Glu Phe
100 105 110

Ser Arg Phe Phe Trp Arg Leu Cys Arg Thr Phe Gly Lys Ile Phe Thr
115 120 125

Asn Thr Lys Val Lys Pro Gln Phe Gln Glu Ile Leu Arg Leu Ser Glu
130 135 140

Glu Asn Ile Asp Ser Ser Ala Gly Asn Gly Val Leu Thr Lys Ala Thr
145 150 155 160

Val Pro Ile Tyr Ala Thr Gly Val Leu Thr Cys Tyr Ile Gln Glu Glu
165 170 175

Asp Arg Lys Leu Leu Val Gly Phe Leu Glu Asp Val Met Thr Leu Leu
180 185 190

Ser Leu Ser His Ala Pro Leu Asp Ser Leu Lys Xaa Ser Phe Val Glu
195 200 205

Leu Gly Ala Asn Gln Ala Tyr His Glu Leu Leu Leu Thr Val Leu Xaa
210 215 220

Tyr Gly Val Xaa His Thr Ser Ala Leu Val Arg Cys Thr Ala Ala Arg
225 230 235 240

Met Phe Glu Leu Leu Val Lys Gly Val Asn Glu Thr Leu Val Ala Gln
245 250 255

Arg Val Val Pro Ala Leu His Xaa Leu Ser Pro Val Asp Pro Xaa Asn
260 265 270

Leu Cys Gln Asp Cys His Asn Phe Gln Pro Leu Gly Leu Phe
275 280 285

<210> 762
 <211> 45
 <212> PRT
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 762
 Met Gln Ala Pro Leu Gln Asp Cys Gly Arg Ser Val Ser Leu Arg Leu
 1 5 10 15

 Ala Cys Val Leu Ala Pro Leu Thr Thr Ser Ser Arg Gly Cys His Leu
 20 25 30

 Gln Leu Pro Gln Asp Lys Gly Lys Ala Arg Xaa Asp Ser
 35 40 45

 <210> 763
 <211> 305
 <212> PRT
 <213> Homo sapiens

 <400> 763
 Met Gly Ile Leu Leu Gly Leu Leu Leu Leu Gly His Leu Thr Val Asp
 1 5 10 15

 Thr Tyr Gly Arg Pro Ile Leu Glu Val Pro Glu Ser Val Thr Gly Pro
 20 25 30

 Trp Lys Gly Asp Val Asn Leu Pro Cys Thr Tyr Asp Pro Leu Gln Gly
 35 40 45

 Tyr Thr Gln Val Leu Val Lys Trp Leu Val Gln Arg Gly Ser Asp Pro
 50 55 60

 Val Thr Ile Phe Leu Arg Asp Ser Ser Gly Asp His Ile Gln Gln Ala
 65 70 75 80

 Lys Tyr Gln Gly Arg Leu His Val Ser His Lys Val Pro Gly Asp Val
 85 90 95

 Ser Leu Gln Leu Ser Thr Leu Glu Met Asp Asp Arg Ser His Tyr Thr
 100 105 110

 Cys Glu Val Thr Trp Gln Thr Pro Asp Gly Asn Gln Val Val Arg Asp
 115 120 125

 Lys Ile Thr Glu Leu Arg Val Gln Lys His Ser Ser Lys Leu Leu Lys
 130 135 140

 Thr Lys Thr Glu Ala Pro Thr Thr Met Thr Tyr Pro Leu Lys Ala Thr

145 150 155 160
 Ser Thr Val Lys Gln Ser Trp Asp Trp Thr Thr Asp Met Asp Gly Tyr
 165 170 175
 Leu Gly Glu Thr Ser Ala Gly Pro Gly Lys Ser Leu Pro Val Phe Ala
 180 185 190
 Ile Ile Leu Ile Ile Ser Leu Cys Cys Met Val Val Phe Thr Met Ala
 195 200 205
 Tyr Ile Met Leu Cys Arg Lys Thr Ser Gln Gln Glu His Val Tyr Glu
 210 215 220
 Ala Ala Arg Ala His Ala Arg Glu Ala Asn Asp Ser Gly Glu Thr Met
 225 230 235 240
 Arg Val Ala Ile Phe Ala Ser Gly Cys Ser Ser Asp Glu Pro Thr Ser
 245 250 255
 Gln Asn Leu Gly Asn Asn Tyr Ser Asp Glu Pro Cys Ile Gly Gln Glu
 260 265 270
 Tyr Gln Ile Ile Ala Gln Ile Asn Gly Asn Tyr Ala Arg Leu Leu Asp
 275 280 285
 Thr Val Pro Leu Asp Tyr Glu Phe Leu Ala Thr Glu Gly Lys Ser Val
 290 295 300
 Cys
 305

<210> 764
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 764
 Met Lys Phe Val Pro Cys Leu Leu Leu Val Thr Leu Ser Cys Leu Gly
 1 5 10 15
 Thr Leu Gly Gln Ala Pro Arg Gln Lys Gln Gly Ser Thr Gly Glu Glu
 20 25 30
 Phe His Phe Gln Thr Gly Gly Arg Asp Ser Cys Thr Met Arg Pro Ser
 35 40 45
 Ser Leu Gly Gln Gly Ala Gly Glu Val Trp Leu Arg Val Arg Leu Pro
 50 55 60
 Gln His Arg Pro Asp Leu Leu Val
 65 70

<210> 765
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 765
 Met Gly Leu Trp Leu Gly Met Leu Ala Cys Val Phe Leu Ala Thr Ala
 1 5 10 15
 Ala Phe Val Ala Tyr Thr Ala Arg Leu Asp Trp Lys Leu Ala Ala Glu
 20 25 30
 Glu Ala Lys Lys His Ser Gly Arg Gln Gln Gln Gln Arg Ala Glu Ser
 35 40 45
 Thr Ala Thr Arg Pro Gly Pro Glu Lys Ala Val Leu Ser Ser Val Ala
 50 55 60
 Thr Gly Ser Ser Pro Gly Ile Thr Leu Thr Thr Tyr Ser Arg Ser Glu
 65 70 75 80
 Cys His Val Asp Phe Phe Arg Thr Pro Glu Glu Ala His Ala Leu Ser
 85 90 95
 Ala Pro Thr Ser Arg Leu Ser Val Lys Gln Leu Val Ile Arg Arg Gly
 100 105 110
 Ala Ala Leu Gly Ala Ala Ser Ala His
 115 120

<210> 766
 <211> 327
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (300)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 766
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
 1 5 10 15
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
 20 25 30
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
 35 40 45
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50 55 60
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65 70 75 80

Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
 85 90 95
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
 100 105 110
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
 115 120 125
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Ala Thr Tyr Gly His
 130 135 140
 Tyr Ala Pro Gly Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Trp
 145 150 155 160
 Lys Lys Met Leu Ala Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
 165 170 175
 Asp Gly Asp Ser Met Ala Thr Arg Glu Glu Leu Thr Ala Phe Leu His
 180 185 190
 Pro Glu Glu Phe Pro His Met Arg Asp Ile Val Ile Ala Glu Thr Leu
 195 200 205
 Glu Asp Leu Asp Arg Asn Lys Asp Gly Tyr Val Gln Val Glu Glu Tyr
 210 215 220
 Ile Ala Asp Leu Tyr Ser Ala Glu Pro Gly Glu Glu Glu Pro Ala Trp
 225 230 235 240
 Val Gln Thr Glu Arg Gln Gln Phe Arg Asp Phe Arg Asp Leu Asn Lys
 245 250 255
 Asp Gly His Leu Asp Gly Ser Glu Val Gly His Trp Val Leu Pro Pro
 260 265 270
 Ala Gln Asp Gln Pro Leu Val Glu Ala Asn His Leu Leu His Glu Ser
 275 280 285
 Asp Thr Asp Lys Asp Gly Arg Leu Ser Lys Ala Xaa Ile Leu Gly Asn
 290 295 300
 Trp Asn Met Phe Val Gly Ser Gln Ala Thr Asn Tyr Gly Glu Asp Leu
 305 310 315 320
 Thr Arg His His Asp Glu Leu
 325

<210> 767
 <211> 184
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (145)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (148)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 767
 Met Trp Arg Pro Ser Val Leu Leu Leu Leu Leu Leu Arg His Gly
 1 5 10 15
 Ala Gln Gly Lys Pro Ser Pro Asp Ala Gly Pro His Gly Gln Gly Arg
 20 25 30
 Val His Gln Ala Ala Pro Leu Ser Asp Ala Pro His Asp Asp Ala His
 35 40 45
 Gly Asn Phe Gln Tyr Asp His Glu Ala Phe Leu Gly Arg Glu Val Ala
 50 55 60
 Lys Glu Phe Asp Gln Leu Thr Pro Glu Glu Ser Gln Ala Arg Leu Gly
 65 70 75 80
 Arg Ile Val Asp Arg Met Asp Arg Ala Gly Asp Gly Asp Gly Trp Val
 85 90 95
 Ser Leu Ala Glu Leu Arg Ala Trp Ile Ala His Thr Gln Gln Arg His
 100 105 110
 Ile Arg Asp Ser Val Ser Ala Ala Trp Asp Thr Tyr Asp Thr Asp Arg
 115 120 125
 Asp Gly Arg Val Gly Trp Glu Glu Leu Arg Asn Xaa Thr Tyr Gly His
 130 135 140
 Xaa Xaa Pro Xaa Glu Glu Phe His Asp Val Glu Asp Ala Glu Thr Tyr
 145 150 155 160
 Lys Lys Met Leu Xaa Arg Asp Glu Arg Arg Phe Arg Val Ala Asp Gln
 165 170 175

Asp Gly Asp Ser Met Ala Thr Arg
180

<210> 768
<211> 509
<212> PRT
<213> Homo sapiens

<400> 768
Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp
1 5 10 15
Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser
20 25 30
His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro
35 40 45
Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser
50 55 60
Thr Leu Glu Glu Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val
65 70 75 80
Pro Val Leu Arg Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp
85 90 95
Ile Asn Gly Ala Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly
100 105 110
Ser Pro Arg Glu Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg
115 120 125
Met Leu Arg Phe Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser
130 135 140
Phe Ala Gly Lys Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser
145 150 155 160
Glu Gly Tyr Tyr Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr
165 170 175
Cys Glu Leu Ala Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln
180 185 190
Ala Gly Glu Glu Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln
195 200 205
Ile Leu Glu Gln Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser
210 215 220
Phe Leu Lys Leu Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys
225 230 235 240

Thr Leu Gln Val Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala
 245 250 255
 Met Tyr Glu Val Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile
 260 265 270
 Arg Gln Lys Gly Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly
 275 280 285
 Gln Val Val Ala Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro
 290 295 300
 Ser Leu Gly Ser Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val
 305 310 315 320
 Pro Pro Thr Arg Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala
 325 330 335
 Thr Ala Pro Ala Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr
 340 345 350
 Leu Pro Pro Ala Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala
 355 360 365
 Val Thr Val Ala Ala Arg Pro Met Thr Thr Thr Ala Phe Pro Thr Thr
 370 375 380
 Gln Arg Pro Trp Thr Pro Ser Pro Ser His Arg Pro Pro Thr Thr Thr
 385 390 395 400
 Glu Val Ile Thr Ala Arg Arg Pro Ser Val Ser Glu Asn Leu Tyr Pro
 405 410 415
 Pro Ser Arg Lys Asp Gln His Arg Glu Arg Pro Gln Thr Thr Arg Arg
 420 425 430
 Pro Ser Lys Ala Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr
 435 440 445
 Thr Ile Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg
 450 455 460
 Asp Asn Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val
 465 470 475 480
 Val Pro Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys
 485 490 495
 Ala Gln Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Val
 500 505

<210> 769
 <211> 554
 <212> PRT
 <213> Homo sapiens

<400> 769

Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly
1 5 10 15
Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg
20 25 30
Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu
35 40 45
Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu
50 55 60
Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg
65 70 75 80
Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala
85 90 95
Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu
100 105 110
Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe
115 120 125
Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys
130 135 140
Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr
145 150 155 160
Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala
165 170 175
Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu
180 185 190
Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln
195 200 205
Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu
210 215 220
Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val
225 230 235 240
Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val
245 250 255
Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly
260 265 270
Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala
275 280 285
Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser

290	295	300
Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg 305 310 315 320		
Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala 325 330 335		
Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala 340 345 350		
Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys 355 360 365		
Cys Lys Thr Tyr Asp His His Trp Leu Ser His His Ala Glu Ala Leu 370 375 380		
Asp Pro Leu Thr Leu Pro Thr Gly Pro Leu Gln Pro Leu Arg Val Ile 385 390 395 400		
Thr Ala Arg Arg Pro Ser Val Ser Arg Glu Ser Leu Pro Ser Ile Pro 405 410 415		
Gly Arg Ile Ser Thr Gly Arg Gly His Arg Gln Pro Gly Gly Pro Ala 420 425 430		
Arg Pro Thr Ser Leu Glu Ser Phe Thr Asn Ala Pro Pro Thr Thr Ile 435 440 445		
Ser Glu Pro Ser Thr Arg Ala Ala Gly Pro Gly Arg Phe Arg Asp Asn 450 455 460		
Arg Met Asp Arg Arg Glu His Gly His Arg Asp Pro Asn Val Val Pro 465 470 475 480		
Gly Pro Pro Lys Pro Ala Lys Glu Lys Pro Pro Lys Lys Lys Ala Gln 485 490 495		
Asp Lys Ile Leu Ser Asn Glu Tyr Glu Glu Lys Tyr Asp Leu Ser Arg 500 505 510		
Pro Thr Ala Ser Gln Leu Glu Asp Glu Leu Gln Val Gly Asn Val Pro 515 520 525		
Leu Lys Lys Ala Lys Glu Ser Lys Lys His Glu Lys Leu Glu Lys Pro 530 535 540		
Glu Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys 545 550		

<210> 770
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 770

Met Leu Ala Leu Leu Gly Leu Leu Ala Gly Thr Glu His Pro Pro Gly
1 5 10 15

Pro Gln Gly Pro Gly Pro Ser
20

<210> 771

<211> 25

<212> PRT

<213> Homo sapiens

<400> 771

Met Val Asn Ile Phe Gly Phe Val Ser Cys Ile Val Phe Val Val Ala
1 5 10 15

Val Gln Leu Cys Tyr Met Lys Gln Pro
20 25

<210> 772

<211> 40

<212> PRT

<213> Homo sapiens

<400> 772

Met Leu Phe Pro Leu Leu Ala Trp Pro His Leu Leu Ser Leu Trp Val
1 5 10 15

Cys Leu Thr Ala Thr Ser Pro Ser Lys Pro Ser Ala Pro His Ser His
20 25 30

Gln Met Asp Leu Cys Leu Leu His
35 40

<210> 773

<211> 305

<212> PRT

<213> Homo sapiens

<400> 773

Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu Leu Gly Leu Ser Ala
1 5 10 15

Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met Lys Val Val Glu Glu
20 25 30

Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu Pro Gln Ala Ser Arg
35 40 45

Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser Gly Pro Val His Leu
50 55 60

Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val Glu Ser Thr Tyr Lys
65 70 75 80
Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln His Glu Gln Thr Phe
85 90 95
Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile Trp His Glu Trp Glu
100 105 110
Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met Arg Asp Gly Asp Ala
115 120 125
Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu Leu Ala Cys Gly Lys
130 135 140
Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser Thr Cys Val Tyr Ala
145 150 155 160
Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro His Ala Leu Leu Val
165 170 175
Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln Trp Asp Gln Val Glu
180 185 190
Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln Gly His Glu Lys Leu
195 200 205
Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu Lys Thr Pro Glu Glu
210 215 220
Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp Ser Leu Gly Phe Glu
225 230 235 240
Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu Leu Ser Lys Glu Ile
245 250 255
Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly Ile Pro Tyr Thr Arg
260 265 270
Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly His Glu Thr Pro Arg
275 280 285
Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro Gly Leu Arg Gly Ser
290 295 300
Leu
305

<210> 774
<211> 122
<212> PRT
<213> Homo sapiens
<220>

<221> SITE
 <222> (92)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>
 <221> SITE
 <222> (109)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (116)
 <223> Xaa equals any of the naturally occurring amino acids

 <400> 774
 Met Leu Ala Leu Thr Leu Ala Lys Ala Asp Ser Pro Arg Thr Ala Leu
 1 5 10 15
 Leu Cys Ser Ala Trp Leu Leu Thr Ala Ser Phe Ser Ala Gln Gln His
 20 25 30
 Lys Gly Ser Leu Gln Val His Gln Thr Leu Ser Val Glu Met Asp Gln
 35 40 45
 Val Leu Lys Ala Leu Ser Phe Pro Lys Lys Lys Ala Ala Leu Leu Ser
 50 55 60
 Thr Ala Ile Leu Cys Phe Leu Arg Thr Ala Leu Arg Gln Ser Phe Ser
 65 70 75 80
 Ser Ala Trp Asn Pro Gly Ala Leu Lys Gly Pro Xaa Thr Ala Ala Thr
 85 90 95
 Lys Asp Thr Xaa Leu Thr Ser Leu Arg Met Ser Lys Xaa Gly Pro Gly
 100 105 110
 His Trp Ala Xaa Lys Thr Ser Trp Cys Lys
 115 120

<210> 775
 <211> 216
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring amino acids

 <220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring amino acids

<400> 775

Cys Phe Pro Trp Gly Xaa Ala Leu Arg Gln Lys Leu Phe Pro Ser Ala
1 5 10 15

Leu Xaa Ala Leu Val Pro Ser Gly Ala Gln Pro Leu Pro Ala Thr Lys
20 25 30

Asp Thr Val Leu Ala Pro Leu Arg Met Ser Gln Val Arg Ser Leu Val
35 40 45

Ile Gly Leu Gln Asn Leu Leu Val Gln Lys Asp Pro Leu Leu Ser Gln
50 55 60

Ala Cys Val Gly Cys Leu Glu Ala Leu Leu Asp Tyr Leu Asp Ala Arg
65 70 75 80

Ser Pro Asp Ile Ala Leu His Val Ala Ser Gln Pro Trp Asn Arg Phe
85 90 95

Leu Leu Phe Thr Leu Leu Asp Ala Gly Glu Asn Ser Phe Leu Arg Pro
100 105 110

Glu Ile Leu Arg Leu Met Thr Leu Phe Met Arg Tyr Arg Ser Ser Ser
115 120 125

Val Leu Ser His Glu Glu Val Gly Asp Val Leu Gln Gly Val Ala Leu
130 135 140

Ala Asp Leu Ser Thr Leu Ser Asn Thr Thr Leu Gln Ala Leu His Gly
145 150 155 160

Phe Phe Gln Gln Leu Gln Ser Met Gly His Leu Ala Asp His Ser Met
165 170 175

Ala Gln Thr Leu Gln Ala Ser Leu Glu Gly Leu Pro Pro Ser Thr Ser
180 185 190

Ser Gly Gln Pro Pro Leu Gln Asp Met Leu Cys Leu Gly Gly Val Ala
195 200 205

Val Ser Leu Ser His Ile Arg Asn
210 215

<210> 776

<211> 127

<212> PRT

<213> Homo sapiens

<400> 776

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
1 5 10 15

Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Glu Pro His Pro Ser Pro
 115 120 125

<210> 777

<211> 164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring amino acids

<400> 777

Met Leu Pro Leu Leu Ile Ile Cys Leu Leu Pro Ala Ile Glu Gly Lys
 1 5 10 15
 Asn Cys Leu Arg Cys Trp Pro Glu Leu Ser Ala Leu Ile Asp Tyr Asp
 20 25 30
 Leu Gln Ile Leu Trp Val Thr Pro Gly Pro Pro Thr Glu Leu Ser Gln
 35 40 45
 Ser Ile His Ser Leu Phe Leu Glu Asp Asn Asn Phe Leu Lys Pro Trp
 50 55 60
 Tyr Leu Asp Arg Asp His Leu Glu Glu Glu Thr Ala Lys Phe Phe Thr
 65 70 75 80
 Gln Val His Gln Ala Ile Lys Thr Leu Arg Asp Asp Lys Thr Val Leu
 85 90 95
 Leu Glu Glu Ile Tyr Thr His Lys Asn Leu Phe Thr Glu Arg Leu Asn
 100 105 110
 Lys Ile Ser Asp Gly Leu Lys Glu Lys Gly Ala Pro Pro Xaa Ser Met

115 120 125
 Asn Ala Phe Pro Ala Pro Ser Pro Thr Cys Thr Pro Glu Pro Leu Gly
 130 135 140
 Ser Val Cys Leu Pro Ser Thr Ser Val Ser Leu Pro Ser His Leu Pro
 145 150 155 160
 Gly Ser Leu Gln

<210> 778
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 778
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile SerAsp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Phe Val Leu Asp Thr Ala Ser
 20 25 30
 Ala Ile Cys Asn Tyr Asn Ala His Tyr Lys Asn His Pro LysTyr Trp
 35 40 45
 Cys Arg Gly Tyr Phe Arg Asp Tyr Cys Asn Ile Ile Ala Phe Ser Pro
 50 55 60
 Asn Ser Thr Asn His Val Ala Leu Lys Asp Thr Gly Asn Gln Leu Ile
 65 70 75 80
 Val Thr Met Ser Cys Leu Asn Lys Glu Asp Thr Gly Trp Tyr Trp Cys
 85 90 95
 Gly Ile Gln Arg Asp Phe Ala Arg Asp Asp Met Asp Phe Thr Glu Leu
 100 105 110
 Ile Val Thr Asp Asp Lys Gly Thr Trp Pro Met Thr Leu Val Trp Glu
 115 120 125
 Arg Leu Ser Gly Thr Lys Pro Glu Ala Ala Arg Leu Pro Lys Leu Ser
 130 135 140
 Ala Arg Leu Thr Ala Pro Gly Arg Pro Phe Ser Ser Phe Ala Tyr
 145 150 155

<210> 779
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>

<221> SITE
 <222> (40)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (51)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (55)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 779
 Met Trp Leu Phe Ile Leu Leu Ser Leu Ala Leu Ile Ser Asp Ala Met
 1 5 10 15
 Val Met Asp Glu Lys Val Lys Arg Ser Leu Cys Trp Thr Arg Leu Leu
 20 25 30
 Pro Ser Ala Thr Thr Met Pro Xaa Thr Arg Ile Thr Pro Asn Thr Gly
 35 40 45
 Ala Glu Xaa Ile Ser Val Xaa Thr Ala Thr Ser Ser Pro Ser Pro Leu
 50 55 60
 Thr Ala Pro Ile Met Trp Pro
 65 70

<210> 780
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 780
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser
 1 5 10 15
 Leu Ile Phe Leu Ser Arg Gly Ser Gly ArgAla Trp Ala Phe Ser His
 20 25 30
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu
 35 40 45
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser HisIle Ser Leu
 50 55 60
 Ser Val Thr Lys Thr Phe Leu
 65 70

<210> 781
 <211> 140

<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (136)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 781
Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
1 5 10 15
Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
20 25 30
Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
35 40 45
Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
50 55 60
Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
65 70 75 80
Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
85 90 95
Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
100 105 110
Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
115 120 125
Ser Leu Leu Gly Phe Ile Pro Xaa Ala Trp Asn Leu
130 135 140

<210> 782
<211> 86
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring amino acids

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring amino acids

<400> 782
Arg Arg Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
1 5 10 15

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
 20 25 30
 Xaa Gly Ile Ile Leu Cys Phe Ser Cys Ser Xaa Gln Arg Asn Arg Ser
 35 40 45
 Asn Tyr Tyr Asp Ala Tyr Gln Ala Gn Pro Leu Ala Thr Arg Ser Ser
 50 55 60
 Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
 65 70 75 80
 Ser Leu Thr Gly Tyr Val
 85

<210> 783
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 783
 Met Phe Leu Phe Ile Thr Phe Thr Ile Leu Ala Ile Phe Ile Ile Glu
 1 5 10 15
 Pro Arg Asn Leu Arg Val Asp Leu Asn Leu Ile Lys PheGln Thr Ser
 20 25 30
 Trp Pro Lys Thr Leu Val Glu Glu Gln Asn
 35 40

<210> 784
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 784
 Ile Asn Phe Thr Tyr Lys Arg Leu Ser Leu Asp Phe Ile Tyr Ile Tyr
 1 5 10 15
 Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Tyr
 20 25 30
 Leu Lys Arg Thr Cys Ala Ser Ile Lys Gly Asn Lys Met Arg Glu Tyr
 35 40 45
 Ile Ile Asp Phe Val Lys Ser Lys Tyr Leu Asn Tyr Gly Phe Ser Ile
 50 55 60
 Phe Lys Asn Ser Cys Ser Phe Cys Thr Tyr Phe Phe
 65 70 75

<210> 785
 <211> 111
 <212> PRT
 <213> Homo sapiens

<400> 785
 Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala
 1 5 10 15
 Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val
 20 25 30
 Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp
 35 40 45
 Leu Gln Asn Leu Ile Asp Phe Gly Gh Lys Lys Val Trp Val Ser Gln
 50 55 60
 Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala
 65 70 75 80
 Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala
 85 90 95
 Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
 100 105 110

<210> 786
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 786
 Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu
 1 5 10 15
 Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile
 20 25 30
 Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro
 35 40 45
 Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu
 50 55 60
 Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr
 65 70 75

<210> 787
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 787

```
Met Val Thr Phe Ile Asn Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1           5           10           15
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20           25           30
Asp Val Ile Met Gly Ile Thr Phe Leu Ala Ala Gly Gln Val Phe Gln
          35           40           45
Thr Ala Trp Pro Ala
          50
```

<210> 788

<211> 169

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring amino acids

<400> 788

```
Met Val Thr Phe Ile Xaa Ala Thr Leu Trp Ile Ala Val Phe Ser Tyr
 1           5           10           15
Ile Met Val Trp Leu Val Thr Ile Ile Gly Tyr Thr Leu Gly Ile Pro
          20           25           30
Asp Val Ile Met Gly Ile Xaa Phe Leu Ala Ala Xaa Thr Ser Val Pro
          35           40           45
Asp Cys Met Ala Ser Leu Ile Val Ala Arg Gln Gly Leu Gly Asp Met
          50           55           60
Ala Val Ser Asn Thr Ile Xaa Ser Asn Val Phe Asp Ile Leu Val Gly
          65           70           75           80
Leu Gly Val Pro Trp Gly Leu Gln Thr Met Val Val Asn Tyr Gly Ser
```

	85	90	95
Thr Val Lys Ile Asn Ser Arg Gly Leu Val Tyr Ser Val Val Leu Leu	100	105	110
Leu Gly Ser Val Ala Leu Thr Val Leu Gly Ile His Leu Asn Lys Trp	115	120	125
Arg Leu Asp Arg Lys Leu Gly Val Tyr Val Leu Val Leu Tyr Ala Ile	130	135	140
Phe Leu Cys Phe Ser Ile Met Ile Glu Phe Asn Val Phe Thr Phe Val	145	150	155
Asn Leu Pro Met Cys Arg Glu Asp Asp	165		

<210> 789
 <211> 105
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring amino acids

Met Ser Gly Leu Ala Ala Ala Ala His Val Phe Arg Val Cys Leu Phe	1	5	10	15
Pro Leu Ser Trp Gly Ser Ser Lys Thr Thr Phe Ile His Gly Leu Ser	20	25	30	
Ser Tyr Ile Ala Thr Pro Val Leu Asn Ser Ile Phe Ser Ser Trp Lys	35	40	45	
Ser Arg Arg Lys Asp Thr Trp Thr Cys Leu Leu His Arg Leu Ser Ala	50	55	60	
Phe Pro Ile Ser Xaa Arg Arg Arg Asn Phe Ala Leu Phe Ser His Ser	65	70	75	80
Cys Val Cys Ile Arg Ser Ser Ser Asp Asp Val Gly Pro Thr Met Tyr	85	90	95	
Ser Phe Ser Val Pro Cys Arg Val Lys	100	105		

<210> 790
 <211> 886
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (234)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (275)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (871)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 790
 Met Ala Ala Arg Gly Arg Gly Leu Leu Leu Leu Thr Leu Ser Val Leu
 1 5 10 15
 Leu Ala Ala Gly Pro Ser Ala Ala Ala Xaa Lys Leu Asn Ile Pro Lys
 20 25 30
 Val Leu Leu Pro Phe Thr Arg Ala Thr Arg Val Asn Phe Thr Leu Glu
 35 40 45
 Ala Ser Glu Gly Cys Tyr Arg Trp Leu Ser Thr Arg Pro Glu Val Ala
 50 55 60
 Ser Ile Glu Pro Leu Gly Leu Asp Glu Gln Gln Cys Ser Gln Lys Ala
 65 70 75 80
 Val Val Gln Ala Arg Leu Thr Gln Pro Ala Arg Leu Thr Ser Ile Ile
 85 90 95
 Phe Ala Glu Asp Ile Thr Thr Gly Gln Val Leu Arg Cys Asp Ala Ile
 100 105 110
 Val Asp Leu Ile His Asp Ile Gln Ile Val Ser Thr Thr Arg Glu Leu
 115 120 125
 Tyr Leu Glu Asp Ser Pro Leu Glu Leu Lys Ile Gln Ala Leu Asp Ser
 130 135 140
 Glu Gly Asn Thr Phe Ser Thr Leu Ala Gly Leu Val Phe Glu Trp Thr
 145 150 155 160

Ile Val Lys Asp Ser Glu Ala Asp Arg Phe Ser Asp Ser His Asn Ala
 165 170 175
 Leu Arg Ile Leu Thr Phe Leu Glu Ser Thr Tyr Ile Pro Pro Ser Tyr
 180 185 190
 Ile Ser Glu Met Glu Lys Ala Ala Lys Gln Gly Asp Thr Ile Leu Val
 195 200 205
 Ser Gly Met Lys Thr Gly Ser Xaa Lys Leu Lys Ala Arg Ile Gln Glu
 210 215 220
 Ala Val Tyr Lys Asn Val Arg Pro Ala Xaa Val Arg Leu Leu Ile Leu
 225 230 235 240
 Glu Asn Ile Leu Leu Asn Pro Ala Tyr Asp Val Tyr Leu Met Val Gly
 245 250 255
 Thr Ser Ile His Tyr Lys Val Gln Lys Ile Arg Gln Gly Lys Ile Thr
 260 265 270
 Glu Leu Xaa Met Pro Ser Asp Gln Tyr Glu Leu Gln Leu Gln Asn Ser
 275 280 285
 Ile Pro Gly Pro Glu Gly Asp Pro Thr Arg Pro Val Ala Val Leu Ala
 290 295 300
 Gln Asp Thr Ser Met Val Thr Ala Leu Gln Leu Gly Gln Ser Ser Leu
 305 310 315 320
 Val Leu Gly His Arg Ser Ile Arg Met Gln Gly Ala Ser Arg Leu Pro
 325 330 335
 Asn Ser Thr Ile Tyr Val Val Glu Pro Gly Tyr Leu Gly Phe Thr Val
 340 345 350
 His Pro Gly Asp Arg Trp Val Leu Glu Thr Gly Arg Leu Tyr Glu Ile
 355 360 365
 Thr Ile Glu Val Phe Asp Lys Phe Ser Asn Lys Val Tyr Val Ser Asp
 370 375 380
 Asn Ile Arg Ile Glu Thr Val Leu Pro Ala Glu Phe Phe Glu Val Leu
 385 390 395 400
 Ser Ser Ser Gln Asn Gly Ser Tyr His Arg Ile Arg Ala Leu Lys Arg
 405 410 415
 Gly Gln Thr Ala Ile Asp Ala Ala Leu Thr Ser Val Val Asp Gln Asp
 420 425 430
 Gly Gly Val His Ile Leu Gln Val Pro Val Trp Asn Gln Gln Glu Val
 435 440 445
 Glu Ile His Ile Pro Ile Thr Leu Tyr Pro Ser Ile Leu Thr Phe Pro
 450 455 460

Trp	Gln	Pro	Lys	Thr	Gly	Ala	Tyr	Gln	Tyr	Thr	Ile	Arg	Ala	His	Gly	465	470	475	480
Gly	Ser	Gly	Asn	Phe	Ser	Trp	Ser	Ser	Ser	Ser	His	Leu	Val	Ala	Thr	485	490	495	
Val	Thr	Val	Lys	Gly	Val	Met	Thr	Thr	Gly	Ser	Asp	Ile	Gly	Phe	Ser	500	505	510	
Val	Ile	Gln	Ala	His	Asp	Val	Gln	Asn	Pro	Leu	His	Phe	Gly	Glu	Met	515	520	525	
Lys	Val	Tyr	Val	Ile	Glu	Pro	His	Ser	Met	Glu	Phe	Ala	Pro	Cys	Gln	530	535	540	
Val	Glu	Ala	Arg	Val	Gly	Gln	Ala	Leu	Glu	Leu	Pro	Leu	Arg	Ile	Ser	545	550	555	560
Gly	Leu	Met	Pro	Gly	Gly	Ala	Ser	Glu	Val	Val	Thr	Leu	Ser	Asp	Cys	565	570	575	
Ser	His	Phe	Asp	Leu	Ala	Val	Glu	Val	Glu	Asn	Gln	Gly	Val	Phe	Gln	580	585	590	
Pro	Leu	Pro	Gly	Arg	Leu	Pro	Pro	Gly	Ser	Glu	His	Cys	Ser	Gly	Val	595	600	605	
Arg	Val	Lys	Ala	Glu	Ala	Gln	Gly	Ser	Thr	Thr	Leu	Leu	Val	Ser	Tyr	610	615	620	
Arg	His	Gly	His	Val	His	Leu	Ser	Ala	Lys	Ile	Thr	Ile	Ala	Ala	Tyr	625	630	635	640
Leu	Pro	Leu	Lys	Ala	Val	Asp	Pro	Ser	Ser	Val	Ala	Leu	Val	Thr	Leu	645	650	655	
Gly	Ser	Ser	Lys	Glu	Met	Leu	Phe	Glu	Gly	Gly	Pro	Arg	Pro	Trp	Ile	660	665	670	
Leu	Glu	Pro	Ser	Lys	Phe	Phe	Gln	Asn	Val	Thr	Ala	Glu	Asp	Thr	Asp	675	680	685	
Ser	Ile	Gly	Leu	Ala	Leu	Phe	Ala	Pro	His	Ser	Ser	Arg	Asn	Tyr	Gln	690	695	700	
Gln	His	Trp	Ile	Leu	Val	Thr	Cys	Gln	Ala	Leu	Gly	Glu	Gln	Val	Ile	705	710	715	720
Ala	Leu	Ser	Val	Gly	Asn	Lys	Pro	Ser	Leu	Thr	Asn	Pro	Phe	Pro	Ala	725	730	735	
Val	Glu	Pro	Ala	Val	Val	Lys	Phe	Val	Cys	Ala	Pro	Pro	Ser	Arg	Leu	740	745	750	
Thr	Leu	Val	Pro	Val	Tyr	Thr	Ser	Pro	Gln	Leu	Asp	Met	Ser	Cys	Pro	755	760	765	

Leu Leu Gln Gln Asn Lys Gln Val Val Pro Val Ser Ser His Arg Asn
 770 775 780
 Pro Leu Leu Asp Leu Ala Ala Tyr Asp Gln Gh Gly Arg Arg Phe Asp
 785 790 795 800
 Asn Phe Ser Ser Leu Ser Ile Gln Trp Glu Ser Thr Arg Pro Val Leu
 805 810 815
 Ala Ser Ile Glu Pro Glu Leu Pro Met Gh Leu Val Ser Gln Asp Asp
 820 825 830
 Glu Ser Gly Gln Lys Lys Leu His Gly Leu Gln Ala Ile Leu Val His
 835 840 845
 Glu Ala Ser Gly Thr Thr Ala Ser Leu Pro Leu Pro La Ala Thr Arg
 850 855 860
 Ser Pro Thr Ser Ala Leu Xaa Glu Gln Ser Ser Arg Met Thr Leu Trp
 865 870 875 880
 Cys Leu Cys Arg Pro Pro
 885

<210> 791
 <211> 498
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (398)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 791
 Glu Ala Leu Gly Gly Arg Cys Leu Trp Glu Xaa Pro Val Thr Phe Thr
 1 5 10 15
 Val His Phe Xaa Asp Asn Ser Gly Asp Val Phe His Ala His Ser Ser
 20 25 30
 Val Leu Asn Phe Ala Thr Asn Arg Asp Asp Phe Val Gln Ile Gly Lys
 35 40 45
 Gly Pro Thr Asn Asn Thr Cys Val Val Arg Thr Va Ser Val Gly Leu

50					55					60					
Thr	Leu	Leu	Arg	Val	Trp	Asp	Ala	Glu	His	Pro	Gly	Leu	Ser	Asp	Phe
65					70					75					80
Met	Pro	Leu	Pro	Val	Leu	Gln	Ala	Ile	Ser	Pro	Glu	Leu	Ser	Gly	Ala
				85					90					95	
Met	Val	Val	Gly	Asp	Val	Leu	Cys	Leu	Ala	Thr	Val	Leu	Thr	Ser	Leu
			100					105					110		
Glu	Gly	Leu	Ser	Gly	Thr	Trp	Ser	Ser	Ser	Ala	Asn	Ser	Ile	Leu	His
		115					120					125			
Ile	Asp	Pro	Lys	Thr	Gly	Val	Ala	Val	Ala	Arg	Ala	Val	Gly	Ser	Val
	130					135					140				
Thr	Val	Tyr	Tyr	Glu	Val	Ala	Gly	His	Leu	Arg	Thr	Tyr	Lys	Glu	Val
145					150					155					160
Val	Val	Ser	Val	Pro	Gln	Arg	Ile	Met	Ala	Arg	His	Leu	His	Pro	Ile
				165					170					175	
Gln	Thr	Ser	Phe	Gln	Glu	Ala	Thr	Ala	Ser	Lys	Val	Ile	Val	Ala	Val
			180					185					190		
Gly	Asp	Arg	Ser	Ser	Asn	Leu	Arg	Gly	Glu	Cys	Thr	Pro	Thr	Gln	Arg
		195					200					205			
Glu	Val	Ile	Gln	Ala	Leu	His	Pro	Glu	Thr	Leu	Ile	Ser	Cys	Gln	Ser
	210					215					220				
Gln	Phe	Lys	Pro	Ala	Val	Phe	Asp	Phe	Pro	Ser	Gln	Asp	Val	Phe	Thr
225					230					235					240
Val	Glu	Pro	Gln	Phe	Asp	Thr	Ala	Leu	Gly	Gln	Tyr	Phe	Cys	Ser	Ile
				245					250				255		
Thr	Met	His	Arg	Leu	Thr	Asp	Lys	Gln	Arg	Lys	His	Leu	Ser	Met	Lys
			260					265					270		
Lys	Thr	Ala	Leu	Val	Val	Ser	Ala	Ser	Leu	Ser	Ser	Ser	His	Phe	Ser
		275					280					285			
Thr	Glu	Gln	Val	Gly	Ala	Glu	Val	Pro	Phe	Ser	Pro	Gly	Leu	Phe	Ala
	290					295					300				
Asp	Gln	Ala	Glu	Ile	Leu	Leu	Ser	Asn	His	Tyr	Thr	Ser	Ser	Glu	Ile
305					310					315					320
Arg	Val	Phe	Gly	Ala	Pro	Glu	Val	Leu	Glu	Asn	Leu	Glu	Val	Lys	Ser
				325					330					335	
Gly	Ser	Pro	Ala	Val	Leu	Ala	Phe	Ala	Lys	Glu	Lys	Ser	Phe	Gly	Trp
			340					345					350		
Pro	Ser	Phe	Ile	Thr	Tyr	Thr	Val	Gly	Val	Leu	Asp	Pro	Ala	Ala	Gly

355 360 365
 Ser Gln Gly Pro Leu Ser Thr Thr Leu Thr Phe Ser Ser Pro Val Thr
 370 375 380
 Asn Gln Ala Ile Ala Ile Pro Val Thr Val Ala Phe Val Xaa Asp Arg
 385 390 395 400
 Arg Gly Pro Gly Pro Tyr Gly Ala Ser Leu Phe Gln His Phe Leu Asp
 405 410 415
 Ser Tyr Gln Val Met Phe Phe Thr Leu Phe Ala Leu Leu Ala Gly Thr
 420 425 430
 Ala Val Met Ile Ile Ala Tyr His Thr Val Cys Thr Pro Arg Asp Leu
 435 440 445
 Ala Val Pro Ala Ala Leu Thr Pro Arg Ala Ser Pro Gly His Ser Pro
 450 455 460
 His Tyr Phe Ala Ala Ser Ser Pro Thr Ser Pro Asn Ala Leu Pro Pro
 465 470 475 480
 Ala Arg Lys Ala Ser Pro Pro Ser Gly Leu Trp Ser Pro Ala Tyr Ala
 485 490 495
 Ser His

<210> 792
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 792
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu

50		55		60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys				
65		70	75	80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala				
	85	90		95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa				
	100	105		110

<210> 793
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (71)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring amino acids

<220>
 <221> SITE
 <222> (112)
 <223> Xaa equals any of the naturally occurring amino acids

<400> 793
Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
1 5 10 15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
20 25 30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
35 40 45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr As Glu
50 55 60
Glu Arg Lys Ser Leu Leu Xaa Asn Leu Glu Glu Ala Lys Lys Lys Lys
65 70 75 80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
85 90 95
Ser Pro Gly Val Phe Asn Xaa Thr Leu Asp Gly Pro Leu Gly Gly Xaa
100 105 110

<210> 794
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 794
 Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn
 1 5 10 15
 Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu
 20 25 30
 Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala
 35 40 45
 Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu
 50 55 60
 Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys
 65 70 75 80
 Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala
 85 90 95
 Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys
 100 105 110
 Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu
 115 120 125
 Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly
 130 135

<210> 795
 <211> 7
 <212> PRT
 <213> Homo sapiens

<400> 795
 Leu Leu Val Val Leu Leu Ser
 1 5

<210> 796
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 796

Leu Leu Leu Val Gly Leu Gln Gln Leu Val Val Gln Ala Trp
1 5 10

<210> 797

<211> 288

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (274)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (276)

<223> Xaa equals any of the naturally occurring amino acids

<220>

<221> SITE

<222> (286)

<223> Xaa equals any of the naturally occurring amino acids

<400> 797

Phe Ser Ser Ser Ala Cys Pro Ser Val Xaa Ser Leu Phe Val Xaa Leu
1 5 10 15

Gly Lys Asn Pro His Asp Ala Gln Gly His Pro Arg Ala Ser Glu Asp
20 25 30

Gln Pro Ser Ser Gly Lys Pro Val Thr Ser Tyr Pro Gly Glu Cys Gly
 35 40 45
 Phe Val Phe Thr Lys Glu Ala Ser Leu Glu Ile Arg Asp Met Leu Leu
 50 55 60
 Ala Asn Lys Val Pro Ala Ala Ala Arg Ala Gly Ala Ile Ala Pro Cys
 65 70 75 80
 Glu Val Thr Val Pro Ala Gln Asn Thr Gly Leu Gly Pro Glu Lys Thr
 85 90 95
 Ser Phe Phe Gln Ala Leu Gly Ile Thr Thr Lys Ile Ser Arg Gly Thr
 100 105 110
 Ile Glu Ile Leu Ser Asp Val Gln Leu Ile Lys Thr Gly Asp Lys Val
 115 120 125
 Gly Ala Ser Glu Ala Thr Leu Leu Asn Met Leu Asn Ile Ser Pro Phe
 130 135 140
 Ser Phe Gly Leu Ile Ile Gln Gln Val Phe Asp Asn Gly Ser Ile Tyr
 145 150 155 160
 Asn Pro Glu Val Leu Asp Ile Thr Glu Glu Thr Leu His Ser Arg Phe
 165 170 175
 Leu Glu Gly Val Arg Asn Val Ala Ser Val Cys Leu Gln Ile Gly Tyr
 180 185 190
 Pro Thr Val Ala Ser Val Pro His Ser Ile Ile Asn Gly Tyr Lys Arg
 195 200 205
 Val Leu Ala Leu Ser Val Glu Thr Asp Tyr Thr Phe Pro Leu Ala Glu
 210 215 220
 Lys Val Lys Ala Phe Leu Ala Asp Pro Ser Ala Phe Val Ala Ala Ala
 225 230 235 240
 Pro Val Ala Ala Ala Thr Thr Ala Ala Pro Ala Ala Ala Ala Pro
 245 250 255
 Ala Lys Val Glu Ala Lys Glu Glu Ser Glu Glu Xaa Asp Glu Xaa Ile
 260 265 270
 Xaa Xaa Ser Xaa Ile Ser Lys Ser Asn Asn Ser Ser Gln Xaa Ile Val
 275 280 285

<210> 798
 <211> 97
 <212> PRT

<213> Homo sapiens

<400> 798

Met Tyr Arg Ala Ile Asp Ser Phe Pro Arg Trp Arg Ser Tyr Phe Tyr
1 5 10 15
Phe Ile Thr Leu Ile Phe Phe Leu Ala Trp Leu Val Lys Asn Val Phe
20 25 30
Ile Ala Val Ile Ile Glu Thr Phe Ala Glu Ile Arg Val Gln Phe Gln
35 40 45
Gln Met Trp Gly Ser Arg Ser Ser Thr Thr Ser Thr Ala Thr Thr Gln
50 55 60
Met Phe His Glu Asp Ala Ala Gly Gly Trp Gln Leu Val Ala Val Gly
65 70 75 80
Cys Gln Gln Ala Pro Gly Thr Arg Pro Ser Leu Pro Pro Gly Ala Val
85 90 95

Gln

<210> 799

<211> 80

<212> PRT

<213> Homo sapiens

<400> 799

Gly Asn Arg Ser Phe Thr Arg Asn Leu Arg Cys Asn Trp Thr Gln Gly
1 5 10 15
Tyr Arg Trp Ser Thr Ala Leu Leu Ile Ser Leu Thr Leu Gly Gly Phe
20 25 30
Gly Ala Asp Arg Phe Tyr Leu Gly His Trp Gln Glu Gly Ile Gly Lys
35 40 45
Leu Phe Ser Phe Gly Gly Leu Gly Val Trp Thr Ile Ile Asp Val Leu
50 55 60
Leu Ile Ser Met His Tyr Leu Gly Pro Ala Asp Gly Ser Leu Tyr Ile
65 70 75 80

<210> 800

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<220>
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 <222> (709)..(709)
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 <211> 878
 <212> DNA
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 <223> n equals a,t,g, or c

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
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<400> 849

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<400> 850

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